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NI OS 06.0.00e for Brocade MLXe and NetIron

Release Notes v1.0

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Document history

Version	Summary of changes	Publication date
1.0	Initial release	10 November 2017

Preface

Contacting Brocade Technical Support

As a Brocade customer, you can contact Brocade Technical Support 24x7 online, by telephone, or by e-mail. Brocade OEM customers should contact their OEM/Solutions provider.

Brocade customers

For product support information and the latest information on contacting the Technical Assistance Center, go to www.brocade.com and select **Support**.

If you have purchased Brocade product support directly from Brocade, use one of the following methods to contact the Brocade Technical Assistance Center 24x7.

Online	Telephone
Preferred method of contact for non-urgent issues: <ul style="list-style-type: none">• Case management through the MyBrocade portal.• Quick Access links to Knowledge Base, Community, Document Library, Software Downloads and Licensing tools.	Required for Sev 1-Critical and Sev 2-High issues: <ul style="list-style-type: none">• Continental US: 1-800-752-8061• Europe, Middle East, Africa, and Asia Pacific: +800-AT FIBREE (+800 28 34 27 33)• Toll-free numbers are available in many countries.• For areas unable to access a toll-free number: +1-408-333-6061

Brocade OEM customers

If you have purchased Brocade product support from a Brocade OEM/solution provider, contact your OEM/Solution Provider for all of your product support needs.

- OEM/solution providers are trained and certified by Brocade to support Brocade® products.
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- Brocade Supplemental Support augments your existing OEM support contract, providing direct access to Brocade expertise. For more information, contact Brocade or your OEM.
- For questions regarding service levels and response times, contact your OEM/solution provider.

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Click the Support tab and select Document Library to access documentation on MyBrocade or www.brocade.com. You can locate documentation by product or by operating system.

Release notes are bundled with software downloads on [MyBrocade](#). Links to software downloads are available on the MyBrocade landing page and in the Document Library.

Document feedback

Quality is our first concern at Brocade, and we have made every effort to ensure the accuracy and completeness of this document.

However, if you find an error or an omission, or you think that a topic needs further development, we want to hear from you. You can provide feedback in two ways:

- Through the online feedback form in the HTML documents posted on www.brocade.com
- By sending your feedback to documentation@brocade.com

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

Overview

NetIron OS Release 6.0.00 introduces new functionalities and enhances the capabilities of Brocade MLX Series, CER 2000 Series and CES 2000 Series. Brocade continues to innovate in key technologies and Release 6.0.00 brings new features in the following areas:

- SDN,
- Data privacy with IPsec,
- IP/MPLS services,
- Network Packet Broker functionality for 4G/LTE mobile networks and
- New Optics for 40G connectivity options.

Path Computation Element Protocol and OpenFlow to MPLS LSP as logical port allow service providers to migrate to an SDN operation model while maintaining interoperability with existing MPLS networks.

Layer 2 over IPsec enables secure connections for data center interconnect and enterprises can now meet security compliances in the public clouds and virtual private clouds.

In addition, manageability and troubleshooting functions are further enhanced for efficient network operation. With these features, Brocade MLX Series Router continues as the leading platform for converged data center and service provider network services.

Brocade MLXe Network Packet Broker

Beginning with NetIron 6.0.00a two FPGA bundles will be available for download.

- Installing the Network Packet Broker (NPB) FPGA bundle will place the Brocade MLXe device chassis into Packet Broker mode.
- Installing the MAIN (default) FPGA bundle will place the Brocade MLXe device chassis into the default mode.

The global setting across the chassis can be either Network Packet Broker (NPB) mode or MAIN (default).

- The Main (default) global setting requires the MAIN FPGA manifest to be installed.
- The NPB global setting requires the NPB FPGA manifest to be installed.

Behavior changes

Behavior changes in release

- Consult the Software Features, the CLI Command, and the Upgrade and Downgrade Considerations sections of these notes for any behavior changes in this release.

There are no deprecated commands in R06.0.00e.

There are no deprecated commands in R06.0.00d.

There are no deprecated commands in R06.0.00c.

There are no deprecated commands in R06.0.00b.

There are no deprecated commands in R06.0.00a.

Software Features

New software features introduced in R06.0.00e

There are no new software features introduced in R06.0.00e.

New software features introduced in R06.0.00d

Details of corrected defects are provided in Closed with Code changes R06.0.00d.

Enhanced features introduced in R06.0.00d:

- **VLAN name length change** - This feature supports up to 35 characters of the VLAN name. The VLAN name character length is increased from 31 to 35 characters.
- **Scaling IPv4 Max-route per VRF** – This feature increases the capacity of IPv4 non-default VRF routes from 650K to 750K. By default, the system-max values for ip-route and ip-cache are increased from 650K to 750K to accommodate the max-route scale.

New software features introduced in R06.0.00c

Details of corrected defects are provided in Closed with Code changes R06.0.00c.

Enhanced features introduced in R06.0.00c:

- **Saving system state to Flash** - This feature aims to collect/capture system state information for debugging purposes at the customer site.

- **Longest Prefix Match Next Hop Walk** - This feature detects inconsistencies between the software and the hardware LPM next hop programming and can generate a syslog warning or take a corrective action to clear the affected routes.

New software features introduced in R06.0.00b

Details of corrected defects are provided in Closed with Code changes R06.0.00b.

Enhanced features introduced in R06.0.00b:

- **Preserving EXP bits in MPLS header** - Preserves the traffic class based on the EXP value from the MPLS header for the VPLS/VLL traffic from the MPLS uplink. Traffic is queued based on the extracted EXP/traffic class value from the packet.
- **Exclude PCP Marking** - With this ACL option, irrespective of priority-force, the packet's pcp value will not be modified on any packet L2/L3/VPLS.
- **Recovery using NP MAC FIFO reset on detecting MAC FIFO Full condition** - This feature monitors the NP Memory MAC FIFO full error condition and allows auto recovery of the system in cases of MAC FIFO full error. This feature will attempt to reset the FIFO for recovery when FIFO full condition is latched.
- **Logging hardware error from Tsec statistics and LP IPC buffer corruption into syslog/console** - This feature monitors Tsec (backplane LP Ethernet controller) for three types of the errors latched in Tsec like FCS error, code error and carrier sense error while receiving the packet from management card.
- **CRC check on Hi-Gig header in Rx path** - This feature is disabled by default. A command has been provided to enable Hi Gig CRC check on Rx path.
- **Flow Control Status** - This feature provides a consolidated view of the flow control status information, including pause frames received by the ports, at various sub-system levels of the line card.

New software features introduced in R06.0.00a

Network Packet Broker Enhancements:

Starting in the R06.0.00a release, some Network Packet Broker (NPB) features are enabled only on the NPB FPGA. If you are using any of the following features in NPB deployments on the following line cards, please ensure that you are using the correct NetIron 6.0.00a NPB FPGA files. All the other NPB features are enabled on all line cards and on both the Main and NPB FPGAs.

MLXe Module	NPB FPGA	Main FPGA
BR-MLX-10Gx20	<ul style="list-style-type: none">• Packet Timestamping• NVGRE stripping• Source port labeling	Following NPB features Not Present: <ul style="list-style-type: none">• Packet Timestamping• NVGRE stripping• Source port labeling
BR-MLX-40Gx4	Not Applicable	<ul style="list-style-type: none">• Packet Timestamping• NVGRE stripping• Source port labeling
BR-MLX-100Gx2	<ul style="list-style-type: none">• Packet Timestamping• NVGRE stripping• Source port labeling	Following NPB features Not Present: <ul style="list-style-type: none">• Packet Timestamping• NVGRE stripping• Source port labeling

The following features are the new NPB features:

- **802.1BR and VN-Tag stripping:** This feature strips 802.1br header (ether-type=0x893f) and VN-tag header (ether-type=0x8926) from ingress traffic before sending it for further processing/forwarding. This is useful in cases where the analytics tools do not understand these headers.
- **Packet Timestamping:** This feature allows inserting an 8-byte timestamp into ingress packets. The timestamp can be NTP time or local clock time.
- **SCTP traffic filtering:** This feature enables the user to filter SCTP traffic based on source and destination TCP/UDP ports.

- **Source port labeling:** Users can enable this feature to insert a 4-byte label to identify the ingress port. This source port label will hold the SNMP IfIndex value from IFMIB for the interface. Source port is used for downstream filtering.
- **NVGRE stripping:** The NVGRE header-stripping feature enables the user to strip the outer Ethernet, Outer IPv4, and the NVGRE header from incoming IPv4 NVGRE packets. This is useful in cases where the analytics tools do not understand these headers, or if the tool is only interested in the tunneled information.
- **Packet Length filtering:** This feature allows users to filter ingress IPv4 and IPv6 traffic based on IP Payload Length of packets. For IPv4, payload length excludes IP header length. For IPv6, there is already a Payload Length field present in the header.

The following features are the other new features:

SNMP/MIB Changes:

- **PCEP MIB:** This feature will provide MIB support to track the status and statistics of PCEP related information. The following tables and notifications are supported: PcepPcepEntityTable, PcepPcepPeerTable, PcepPcepSessTable, pcepPcepSessUp, pcepPcepSessDown, pcepPcepSessPeerOverload, pcepPcepSessPeerOverloadClear”
- **Auto-bandwidth MIB:** This MIB (mplsLspAutoBwTable) will help monitor status and statistics of MPLS RSVP auto-bandwidth related information via SNMP
- **SNMP support for CAM utilization (PRODRFE103262):** CAM usage can be monitored via SNMP MIBs. This feature aligns MIBs to the current CAM partition/sub-partition structure.

OpenFlow Enhancements:

- **OpenFlow: ARP to normal plus controller:** With this feature along with regular processing of ARP (consumed by CPU or flooded in bridge/vlan domain), punting of ARP packets to the SDN controller is also supported when the SDN controller programs such a flow rule. ARP packets can be tagged or untagged coming in on configured unprotected VLAN.
- **OpenFlow support for MPLS as switched:** When ingress MPLS traffic with no interface MAC is received on an openflowL2/L23 interface, it will be switched and will not hit the MPLS OpenFlow rule.
- **Primary Port LAG:** This feature changes primary port in LAG with no traffic disruption. Prior to this release, primary port change was manual and caused traffic disruption. Starting with NetIron 6.0.00a, the change will be seamless with no traffic disruption.
- **AAA local authentication fallback (PRODRFE103246):** This feature allows the administrator to fallback to the local authentication method in case a server in a previous authentication method returned access-reject. Prior to this release this was done only in case there was a timeout from servers of earlier methods. In case of authentication success from the server, that response is considered final for that method and the entire authentication.

- **DH group 14 for SSH in non-FIPS mode (PRODRFE103457):** In earlier releases, the Diffie Hellman Group 14 is supported for FIPS and CC mode only. With this feature enhancement DH Group 14 is supported in regular mode (for example, when FIPS is not enabled) as well.
- **CE2.0 Change in MLXe:** Rate-limiting function was enhanced to meet CE2.0 guidelines to enable certification.
- **Ingress ACL permit logging:** This feature when enabled will log packets matching the permit rule of an access-list for IPv4 and IPv6. It is supported for ingress filtering only, and can be enabled for User ACL and rACL bindings. It is not supported for L2ACLs. Logging can be done selectively as well with optional CLI to limit CPU utilization.
- **PKI offline enrollment:**

This feature introduces the following enhancements to PKI certificate management:

- **Offline certificate Enrollment:** Device will generate CSR and prints it to console and copies a file to flash in base64 format. User can manually take the CSR to CA server and can obtain the certificate. Then User can load the certificate into a device. Useful in case the CA server needs to be offline.
- **Offline loading of certificates and CRLs:** User can paste the PEM format certificate or CRL onto device console now.
- **Certificate chain validation using CRLs:** Previously when using CRL, only the revocation status of peer's client certificate is validated not the whole chain. With this enhancement, we validate the revocation status of entire peer certificate chain including CA certificates.

Optics Support:

Support for QSFP 28 Optics.

Software features introduced in R06.0.00

The following software features are new in this release. For information about which platforms support these features, refer to the Feature Support Matrix.

IPsec enhancements:

- **L2 over IPsec** – The feature provides secure point to point layer 2 extension over WAN. The layer 2 traffic is encrypted by IPsec tunnels using the most advanced Suite-B security protocols.
- **ICX IPsec interoperability** - ICX and MLXe have been tested to interoperate in the same IPsec tunnels for secure VPN connection for enterprise.
- **vRouter IPsec interoperability** - vRouter and MLXe have been tested to interoperate in the same IPsec tunnels for secure VPN connection between enterprise data center and public cloud for hybrid cloud use case.
- **Track IPsec tunnels for VRRP failover** - If the IPsec tunnel goes down, the VRRP / VRRPe priority will decrement and trigger the failover the VRRP / VRRPe peers.

- Option to display IKEv2 debug for a particular IPsec tunnel - The debug option displays IKEv2 debug logs for a specific IPsec tunnel as configured by the user. The debug logs are as per the currently supported debug logs such as trace, event, error, packet et cetera.

Software-defined Network (SDN):

- Path Computing Element Communication Protocol (PCEP) - Path Computing Element (PCE) is SDN based solution for MPLS traffic engineering. MLXe will act as the PCE client (PCC) that will request RSVP LSP path calculation from the PCE server. PCE server will inquire its own traffic engineering database and respond with the explicit path object to the PCC. Stateless PCE based on RFC 5440 will be supported in NI 6.0.
- OpenFlow to MPLS LSP as logical port - MPLS LSP tunnels are supported in OpenFlow as logical ports.

Network Packet Broker enhancements:

- Increase traffic streams to 6K - The number of traffic streams / transparent VLANs is increased to 6K to support high scale network packet broker and telemetry functions.
- Increase L2 and L3 ACL to 4K - The number of Layer 2 and Layer 3 ACLs is increased to 4K to support high scale packet filtering.
- SNMP monitoring support L2 ACL - SNMP monitoring is enabled for L2 ACL through MIB.
- High/low watermark thresholds for traffic statistics - The high and low watermarks for the past 1 hour and past 24 hours of each physical interface will be tracked for interface statistics.
- IPv6 ACL .1p match - It allows user to filter IPv6 traffic on the basis of .1p priority.

BGP diverse path:

- BGP Add-Path - This enables router to advertise multiple paths for the same prefix for multi-pathing and faster convergence.
- BGP Best External - The router can advertise the best external BGP path to the BGP neighbors even when it receives a better internal BGP route. This enable multiple exit paths to other AS.

GRE enhancements:

- GRE tunnel bypassing ACL - An option is added to allow traffic coming in from the GRE tunnel to bypass the ACL configured on the interface.
- GRE tunnel to hand off to MPLS - This allows GRE tunnel to hand off to MPLS LSP
- IPv6 over IPv4 GRE - IPv6 traffic can be carried across IPv4 GRE tunnels.

IPv6 enhancements:

- IPv6 for VE over VPLS - IPv6 addresses and IPv6 routing will be supported on VE over VPLS interfaces.

- IPv6 ACL deny logging - The IPv6 ACL deny logging feature records traffic flows that are denied by IPv6 inbound ACLs. When a packet is denied by an ACL, a syslog entry is generated.
- IPv6 ACL per SNMP server group - IPv6 ACLs can be applied to individual SNMP server group to limit access at a per group level.

New Optics:

- 40G Bi-Di QSFP – 40G Bi-Di QSFP+ optics is now supported on the MLXe 4-port 40G line card.

Other features:

- BFD Support across MCT - BFD is supported on routers in MCT to provide connectivity check for faster route convergence.
- Load balance VLL to a specific group of LSPs - Traffic from VLL can be load balanced up to 8 LSPs.
- Radius over TCP / TLS - Radius connection will be sent over TCP (RFC 6613) and also over TLS (RFC 6614) to provide encrypted RADIUS.
- Increase Netconf RPC response limit to 512K - The RPC response limit to a NETCONF client has been increased to 512 Kbytes. It is 32 Kbytes in previous releases.
- LDP shortcut - Router generated packets such as routing protocols and OAM packets (pings and traceroutes) can be sent over MPLS LDP tunnels instead of regular IP routing.
- Multicast snooping per flag aging - The multicast snooping database will age out per flag.
- IPC stuck auto detection on LP and MP - This feature generates syslog's to indicate when IPC Tx queue is stuck when the queue is non-empty.
- Show tech additions - The following show tech sub-commands have been added.
 Show cpu histogram hold no clear
 Show cpu histogram wait noclear
 Show tm log
 Show tm histogram
 Show tm non-empty-queue
 ltc show statistics
 ltc show error list
 Statistics for IPC Retransmits from MP
- Show command for disabled CCEP port with MCT Spoke PW status - This show command is to display the MCT spoke PW state for both L2 and L2VPN client ports.
- MCT CCEP port up delay - A configurable delay is added to LACP-BLOCKED state after CCEP port is enabled to prevent duplicate L2 BUM packets.
- High CPU auto detection on MP - The MP CPU is monitored regularly. If the CPU crosses a threshold, log file will be created for troubleshooting.
- LSP down syslog reason string - This feature adds a reason string to LSP down syslog to explain what causes the LSP to go down

- IPC statistics show TX drops – New fields are added to show the drops in reliable and unreliable transmit under the `ipc show statistics` command

CLI commands

The following commands are new in this release.

New CLI commands R06.0.00e

There are no new CLI commands in R06.0.00e.

Modified commands in R06.0.00d

The following commands have been modified in this release.

- Vlan *vlan-id* [name *vlan-name*]
- `system-max ip-vrf-route num`

New CLI commands R06.0.00c

- `memdump slot-slot-id`
- `reload-memdump`
- `reset-memdump`
- [no] `sysmon lpm nh-walk { action action-selection | auto | polling-period duration | threshold threshold-setting }`
- Show `sysmon lpm nh-walk status`
- [no] `sysmon lpm nh-walk start`

New CLI commands R06.0.00b

- [no] `set-force-tc-match-label-exp`
- [no] `access-list 1200 permit any any any etype any priority-mapping priority-force exclude-pcp-marking`
- `show flow-ctrl status all`

New CLI commands R06.0.00a

- [no] `fpga_mode_npb`
- [no] `lag port-primary-dynamic`
- [no] `port-primary-dynamic`
- [no] `lacp system-priority number`
- [no] `strip-802-1br all`
- [no] `strip-vn-tag slot slot-num`

- [no] strip-802-1br slot *slot-num* device *device-id*
- [no] strip-vn-tag all
- [no] strip-vn-tag slot *slot-num*
- [no] strip-vn-tag slot *slot-num* device *device-id*
- show packet-encap-processing
- show packet-encap-processing strip-802-1BR
- show packet-encap-processing strip-vn-tag
- show packet-encap-processing [slot *slot-num*]
- show packet-encap-processing interface Ethernet
- show running-config – (for config-pkt-encap-proc mode)
- ip match-payload-len
- ipv6 match-payload-len
- show ip match-payload-len
- show ip match-payload-len [interface ethernet slot | port]
- show ipv6 match-payload-len
- show ipv6 match-payload-len [interface ethernet slot | port]
- [no] config-pkt-encap-proc

Modified commands in Brocade Network Packet Broker R06.0.00a

- The show version and show flash command output will include information about whether the XPP FPGA on an LP is NPB. If there is no reference to NPB in the command output, it is the MAIN FPGA.

CLI commands introduced in R06.0.00

- additional-paths
- additional-paths select
- advertise-best-external
- clear np qos statistics
- client-interfaces sync_ccep_early
- dead-timer
- disable-acl-for-6to4
- disable-acl-for-gre
- enable pce

- enable-qos-statistics
- match additional-paths advertise-set
- message-bundle-support
- max-unknown-messages
- max-unknown-requests
- min-keepalive
- negotiation-deny
- neighbor additional-paths
- neighbor additional-paths advertise
- new additional-paths disable
- pce compute
- preference
- request-timer
- router pcep
- set next-hop-tvf-domain
- show acl-policy
- show tvf-domain
- suppress-ipv6-priority-mapping
- sysmon mp-high-cpu enable
- sysmon mp-high-cpu cpu-threshold
- sysmon mp-high-cpu task-threshold
- sysmon ipc rel-q-mon enable
- trv-domain
- vll-peer (load-balance)

Modified commands in R06.0.00

The following commands have been modified in this release.

- ipv6 access-list
- interface ve
- set next-hop-tvf-domain
- show cluster
- show ipsec profile
- show ip multicast
- show ip multicast vpls

- show ip route
- show ipv6 bgp neighbors
- show ipv6 bgp routes
- show np qos statistics
- show mpls vll
- show run
- sysmon np memory-errors action
- track-port
- vll-peer
- vll-peer (load balance)

Deprecated commands

There are no deprecated commands in this release.

MIBs and messages

MIBs

New MIB Objects

No MIB objects were introduced in release R06.0.00e.

New MIB Objects

No MIB objects were introduced in release R06.0.00d.

New MIB Objects

No MIB objects were introduced in release R06.0.00c.

New MIB Objects

No MIB objects were introduced in release R06.0.00b.

MIB Objects

The following MIB objects are introduced in release R06.0.00a:

- fdryL2AclIfBindAclName – New OID
- fdryL2NamedAclTable - New table
 - fdryL2NamedAclIndex
 - fdryL2NamedAclClauseIndex
 - fdryL2NamedAclName
 - fdryL2NamedAclAction
 - fdryL2NamedAclSourceMac
 - fdryL2NamedAclSourceMacMask

- fdryL2NamedAclDestinationMac
 - fdryL2NamedAclDestinationMacMask
 - fdryL2NamedAclVlanId
 - fdryL2NamedAclEthernetType
 - fdryL2NamedAclDot1pPriority
 - fdryL2NamedAclDot1pPriorityForce
 - fdryL2NamedAclDot1pPriorityMapping
 - fdryL2NamedAclMirrorPackets
 - fdryL2NamedAclLogEnable
 - fdryL2NamedAclRowStatus
- bgp4V2NlriRxPathIdentifier – New OID
- bgp4V2NlriTxPathIdentifier – New OID
- IfxWatermarkTable – New Table
 - ifWatermarkCurrentHourWindowStartTime
 - ifWatermarkCurrentHourHighRxUtilTime
 - ifWatermarkCurrentHourHighInPktRate
 - ifWatermarkCurrentHourHighInBitRate
 - ifWatermarkCurrentHourLowRxInUtilTime
 - ifWatermarkCurrentHourLowInPktRate
 - ifWatermarkCurrentHourLowInBitRate
 - ifWatermarkCurrentHourHighTxUtilTime
 - ifWatermarkCurrentHourHighOutPktRate
 - ifWatermarkCurrentHourHighOutBitRate
 - ifWatermarkCurrentHourLowTxOutUtilTime
 - ifWatermarkCurrentHourLowOutPktRate
 - ifWatermarkCurrentHourLowOutBitRate
 - ifWatermarkLastHourHighRxUtilTime
 - ifWatermarkLastHourHighInPktRate
 - ifWatermarkLastHourHighInBitRate
 - ifWatermarkLastHourLowRxUtilTime
 - ifWatermarkLastHourLowInPktRate
 - ifWatermarkLastHourLowInBitRate
 - ifWatermarkLastHourHighTxUtilTime
 - ifWatermarkLastHourHighOutPktRate
 - ifWatermarkLastHourHighOutBitRate
 - ifWatermarkLastHourLowTxUtilTime
 - ifWatermarkLastHourLowOutPktRate
 - ifWatermarkLastHourLowOutBitRate
 - ifWatermarkCurrentDayWindowStartTime
 - ifWatermarkCurrentDayHighRxUtilTime
 - ifWatermarkCurrentDayHighInPktRate
 - ifWatermarkCurrentDayHighInBitRate
 - ifWatermarkCurrentDayLowRxInUtilTime
 - ifWatermarkCurrentDayLowInPktRate
 - ifWatermarkCurrentDayLowInBitRate
 - ifWatermarkCurrentDayHighTxUtilTime
 - ifWatermarkCurrentDayHighOutPktRate
 - ifWatermarkCurrentDayHighOutBitRate

- ifWatermarkCurrentDayLowTxOutUtilTime
- ifWatermarkCurrentDayLowOutPktRate
- ifWatermarkCurrentDayLowOutBitRate
- ifWatermarkLastDayHighRxUtilTime
- ifWatermarkLastDayHighInPktRate
- ifWatermarkLastDayHighInBitRate
- ifWatermarkLastDayLowRxUtilTime
- ifWatermarkLastDayLowInPktRate
- ifWatermarkLastDayLowInBitRate
- ifWatermarkLastDayHighTxUtilTime
- ifWatermarkLastDayHighOutPktRate
- ifWatermarkLastDayHighOutBitRate
- ifWatermarkLastDayLowTxUtilTime
- ifWatermarkLastDayLowOutPktRate
- ifWatermarkLastDayLowOutBitRate

Deprecated MIBs

There are no deprecated MIBs in this release.

RFCs and standards

The following RFCs and standards are newly supported in this release:

- draft-ietf-idr-add-paths-10
- draft-ietf-idr-best-external-05
- RFC 4655 – A Path Computation Element (PCE) Based Architecture.
- RFC 5440 – Path Computation Element (PCE) Protocol (PCEP). Fully supported except SVEC and Load-balance objects
- RFC 5521 – Extensions to the Path Computation Element Protocol (PCEP) for Route Exclusions. This is partially supported; SRLG ID and Unnumbered interfaces are not supported. Explicit Exclusion Route sub-object (EXRS) is not supported.

Hardware support

Supported devices for R06.0.00a

The following devices are supported in this release:

- Brocade NetIron XMR 4000
- Brocade NetIron XMR 8000
- Brocade NetIron XMR 16000
- Brocade NetIron XMR 32000
- Brocade MLX-4
- Brocade MLX-8
- Brocade MLX-16
- Brocade MLX-32
- Brocade MLXe-4
- Brocade MLXe-8
- Brocade MLXe-16
- Brocade MLXe-32
- Brocade NetIron CES 2024C-4X
- Brocade NetIron CES 2024F-4X
- Brocade NetIron CER-RT 2024C-4X
- Brocade NetIron CER-RT 2024F-4X
- Brocade NetIron CES 2024C
- Brocade NetIron CES 2024F
- Brocade NetIron CES 2048C
- Brocade NetIron CES 2048CX
- Brocade NetIron CES 2048F
- Brocade NetIron CES 2048FX
- Brocade NetIron CER 2024C
- Brocade NetIron CER-RT 2024C
- Brocade NetIron CER 2024F
- Brocade NetIron CER-RT 2024F
- Brocade NetIron CER 2048C
- Brocade NetIron CER-RT 2048C
- Brocade NetIron CER 2048CX
- Brocade NetIron CER-RT 2048CX
- Brocade NetIron CER 2048F
- Brocade NetIron CER-RT 2048F
- Brocade NetIron CER 2048FX
- Brocade NetIron CER-RT 2048FX

Supported devices for Brocade Network Packet Broker R06.0.00a

- Brocade NetIron XMR 4000
- Brocade NetIron XMR 8000
- Brocade NetIron XMR 16000
- Brocade NetIron XMR 32000
- Brocade MLX-4
- Brocade MLX-8
- Brocade MLX-16
- Brocade MLX-32
- Brocade MLXe-4
- Brocade MLXe-8
- Brocade MLXe-16
- Brocade MLXe-32

Supported modules

The following interface modules are supported in this release:

Module	Description	Compatible devices		Generation
		MLXe with MLX or MR2-M mgmt. module	MLXe with XMR or MR2-X mgmt. module	
BR-MLX-10GX4-IPSEC-M	Brocade MLX 4-port 10 GbE/1 GbE combo and 4-port 1 GbE (-M) IPsec module with 512,000 IPv4 routes or 240,000 IPv6 routes in hardware	Yes	Yes	3
BR-MLX-10GX20-X2	Brocade MLX 20-port 10 GbE/1 GbE (X2) SFP+ and SFP combo module with extended route table support for up to 2.4 million IPv4 or 1.8 million IPv6 routes in hardware. Integrated hardware-enabled MACsec.	Yes	Yes	3
BR-MLX-10GX20-M	Brocade MLX 20-port 10 GbE/1 GbE (M) combo module. Supports SFP+ and SFP with up to 512,000 IPv4 routes or 240,000 IPv6 routes in FIB. Integrated hardware-enabled MACsec.	Yes	Yes	3
BR-MLX-1GCX24-X-ML	Brocade MLX 24-port (X) 10/100/1,000 copper (RJ-45) module with IPv4/IPv6/MPLS hardware support. Supports 512,000 IPv4 routes in FIB. License upgradable to "X" scalability (1 million IPv4 routes in hardware).	Yes	No	1.1

Module	Description	Compatible devices		Generation
		MLXe with MLX or MR2-M mgmt. module	MLXe with XMR or MR2-X mgmt. module	
BR-MLX-100GX2-CFP2-M	Brocade MLX 2-port 100 GbE (M) CFP2 module. Supports 512,000 IPv4 routes in FIB.	Yes	Yes	3
BR-MLX-100GX2-CFP2-X2	Brocade MLX 2-port 100 GbE (X2) CFP2 module with extended route table support for up to 2.4 million IPv4 or 1.8 million IPv6 routes in hardware.	Yes	Yes	3
BR-MLX-100GX1-X	Brocade MLX Series 1-port 100 GbE module with IPv4/IPv6/MPLS hardware support—requires high-speed switch fabric modules and CFP optics.	Yes	Yes	2
BR-MLX-100GX2-X	Brocade MLX Series 2-port 100 GbE module with IPv4/IPv6/MPLS hardware support—requires high-speed switch fabric modules and CFP optics.	Yes	Yes	2
BR-MLX-10GX8-X	Brocade MLX Series 8-port 10 GbE (X) module with IPv4/IPv6/MPLS hardware support—requires SFP optics. Supports up to 1 million IPv4 routes in FIB. Requires high-speed switch fabric modules.	Yes	Yes	2
BR-MLX-1GCX24-X	Brocade MLX 24-port (X) 10/100/1,000 copper (RJ-45) module with IPv4/IPv6/MPLS hardware support. Supports 1 million IPv4 routes in hardware.	Yes	Yes	1.1

Module	Description	Compatible devices		Generation
		MLXe with MLX or MR2-M mgmt. module	MLXe with XMR or MR2-X mgmt. module	
BR-MLX-40GX4-M	Brocade MLX Series 4-port 40 GbE (M) module with IPv4/IPv6/MPLS hardware support and support for QSFP+ optics, including both LR and SR versions. Supports up to 512,000 IPv4 routes or 128,000 IPv6 routes. Requires high-speed switch fabric modules.	Yes	Yes	3
BR-MLX-10GX4-X	Brocade MLX Series 4-port 10 GbE (X) module with IPv4/IPv6/MPLS hardware support—requires XFP optics. Supports 1 million IPv4 routes in hardware.	Yes	Yes	1.1
BR-MLX-10GX4-X-ML	Brocade MLX/MLXe 4-port 10 GbE (ML) module with IPv4/IPv6/MPLS hardware support—requires XFP optics. Supports 512,000 IPv4 routes in FIB. License upgradable to “X” scalability (1 million IPv4 routes in hardware).	Yes	No	1.1
NI-MLX-10GX8-M	Brocade MLX Series 8-port 10 GbE (M) module with IPv4/IPv6/MPLS hardware support and up to 512,000 IPv4 routes—requires SFP+ optics and high-speed switch fabric modules.	Yes	No	2

Module	Description	Compatible devices		Generation
		MLXe with MLX or MR2-M mgmt. module	MLXe with XMR or MR2-X mgmt. module	
BR-MLX-1GFX24-X	Brocade MLX Series 24-port FE/GbE (SFP) module, with IPv4/IPv6/MPLS hardware support. Supports 1 million IPv4 routes in hardware.	Yes	Yes	1.1
BR-MLX-1GFX24-X-ML	Brocade MLX Series 24-port FE/GbE (SFP) module, with IPv4/IPv6/MPLS hardware support. Supports 512,000 IPv4 routes in FIB. License upgradable to “X” scalability (1 million IPv4 routes in hardware).	Yes	No	1.1
BR-MLX-10GX24-DM	Brocade MLXe 24-port 10 GbE module with IPv4/IPv6/MPLS hardware support—requires SFP optics. Supports 256,000 IPv4 routes in FIB.	Yes	No	3a
NI-MLX-1GX48-T-A	Brocade MLX Series 48-port 10/100/1000BASE-T, MRJ21 module with IPv4/IPv6/MPLS hardware support.	Yes	No	1.1
NI-MLX-10GX8-D	Brocade MLX Series 8-port 10-GbE (D) module with IPv4/IPv6 hardware support - requires SFPP optics. Supports 256K IPv4 routes in FIB. Does not support MPLS. Requires high speed switch fabric modules.	Yes	No	2

Module	Description	Compatible devices		Generation
		MLXe with MLX or MR2-M mgmt. module	MLXe with XMR or MR2-X mgmt. module	
BR-MLX-10GX10-X2	MLX 10-port 10-Gbe/1Gbe (X2) SFP+ and SFP combo module with extended route table support up to 2M IPv4 and 800K IPv6 routes in hardware. MACsec enabled. Upgradeable to 20X10G-X2 using additional software license.	Yes	Yes	3
BR-MLX-1GX20-U10G-M	Brocade MLXe twenty (20)-port 1-GBE/1-GBE (M) module with IPv4/IPv6/MPLS hardware support. Requires SFP optics. Supports 512K IPv4 routes in FIB. Requires high speed switch fabric modules. Upgradeable to 10G, with BR-MLX-1GX20-U10G-MUPG license.	Yes	Yes	3

Module	Description	Compatible devices		Generation
		MLXe with MLX or MR2-M mgmt. module	MLXe with XMR or MR2-X mgmt. module	
BR-MLX-1GX20-U10G-X2	Brocade MLXe twenty (20)-port 1-GBE (X2) module with IPv4/IPv6/MPLS hardware support. Requires SFP optics. Supports simultaneous 2M IPv4 and 0.8M IPv6, or 1.5M IPv4 and 1M IPv6 routes in FIB. Requires hSFM. Upgradeable to 10G with extra license.	Yes	Yes	3

- Depending on your router model, you can install up to 32 single-slot interface modules, or 16 double-slot interface modules.
- Interface modules are hot-swappable. Interface modules can be removed and replaced without powering down the system.
- Gen 3 - X2 modules with an MR2-M module will only support 512M routes.

Supported power supplies

The following table lists the power supplies that are available for the devices supported in this release:

Part number	Description	Compatible devices
BR-MLXE-ACPWR-1800	1800W power supply.	16-, 8- and 4-slot MLXe and 16 and 8-Slot XMR/MLX AC
BR-MLXE-DCPWR-1800	1800W power supply.	16-, 8- and 4-slot MLXe and 16 and 8-Slot XMR/MLX DC
NI-X-ACPWR	1200W power supply.	16-, 8- and 4-slot MLXe and 16 and 8-Slot XMR/MLX AC
NI-X-DCPWR	1200W power supply.	16-, 8- and 4-slot MLXe and 16 and 8-Slot XMR/MLX DC
NI-X-ACPWR-A	1200W power supply.	4-Slot NetIron XMR/MLX AC
NI-X-DCPWR-A	1200W power supply.	4-Slot NetIron XMR/MLX DC
BR-MLXE-32-ACPWR-3000	AC 3000W power supply.	32-slot NetIron MLXe/XMR/MLX
BR-MLXE-32-DCPWR-3000	DC 3000W power supply.	32-slot NetIron MLXe/XMR/MLX
NIBI-32-ACPWR-A	AC 2400W power supply.	32-Slot NetIron MLXe/XMR/MLX
NIBI-32-DCPWR	2400W power supply.	32-Slot NetIron MLXe/XMR/MLX DC

Supported optics

For a list of supported fiber-optic transceivers that are available from Brocade, refer to the latest version of the Brocade Optics Family Data Sheet available online at www.brocade.com.

The NetIron 6.0.00a release includes support for the following:

Part number	Description
CFP2-TO-QSFP28-MOD	CFP2 to QSFP28 conversion module

Software upgrade and downgrade

Image file names

Download the following images from www.brocade.com. In some cases boot and manifest images do not need to be upgraded.

Brocade MLX Series and NetIron XMR devices

NOTE: When upgrading Multi-Service Ironware for MLX Series/XMR, follow the manifest upgrade to ensure all required files are upgraded. Boot upgrade is not part of the manifest upgrade. If the boot image is R05.6.00 or older, upgrade the boot image.

Required images for R6.0.00e MLX Series/XMR software upgrade

Manifest File for XMR/MLX Release 06.0.00e

```
-NETIRON_IRONWARE_VER XMR-MLXV6.0.00e
#=====
-DIRECTORY /Boot/InterfaceModule
xmlprm05900.bin
-DIRECTORY /Boot/ManagementModule
xmprm05900.bin
# Application Images
-DIRECTORY /Combined/FPGA
lpfpga06000e.bin
-DIRECTORY /Combined/Application
xm06000e.bin
-DIRECTORY /Monitor/InterfaceModule
xmlb06000e.bin
-DIRECTORY /Monitor/ManagementModule
xmb06000e.bin
-DIRECTORY /Application/ManagementModule
xmr06000e.bin
-DIRECTORY /Application/InterfaceModule
xmlp06000e.bin
-DIRECTORY /FPGA/InterfaceModule
pbif4x40_06000e.bin 2.05
pbif8x10_06000e.bin 2.24
pbifmrj_06000e.bin 4.04
pbifsp2_06000e.bin 4.02
statsmrj_06000e.bin 0.09
xgmacsp2_06000e.bin 0.17
xpp2x100_06000e.bin 1.05
xpp4x40_06000e.bin 6.00
xpp4x10g3_06000e.bin 5.00
xpp8x10_06000e.bin 1.08
xppmrj_06000e.bin 1.03
```

xppsp2_06000e.bin 1.01
xppxsp2_06000e.bin 1.01
pbif-ber-g3_06000e.bin 2.05
xpp20x10g3_06000e.bin 6.04
xpp2x100g3_06000e.bin 6.04
-DIRECTORY /FPGA/ManagementModule
mbridge32_06000e.xsvf 36
mbridge_06000e.xsvf 37
sbridge_06000e.mcs 6
hsbridge_06000e.mcs 17
-END_OF_IMAGES

-DIRECTORY /Signatures

xmlprm05900.sig
xmprm05900.sig
xmlb06000.sig
xmb06000.sig
xmr06000e.sig
xmlp06000e.sig
lpfpga06000e.sig
hsbridge_06000e.sig
mbridge_06000e.sig
mbridge32_06000e.sig
sbridge_06000e.sig
pbif4x40_06000e.sig
pbif8x10_06000e.sig
pbifmrj_06000e.sig
pbifsp2_06000e.sig
pbif-ber-g3_06000e.sig
statsmrj_06000e.sig
xgmacsp2_06000e.sig
xpp2x100_06000e.sig
xpp20x10g3_06000e.sig
xpp2x100g3_06000e.sig
xpp4x40_06000e.sig
xpp4x10g3_06000e.sig
xpp8x10_06000e.sig
xppmrj_06000e.sig
xppsp2_06000e.sig
xppxsp2_06000e.sig
xmlprm05900.sha256
xmprm05900.sha256
xmlb06000.sha256
xmb06000.sha256
xmr06000e.sha256

xmlp06000e.sha256
lpfpga06000e.sha256
hsbridge_06000e.sha256
mbridge_06000e.sha256
mbridge32_06000e.sha256
sbridge_06000e.sha256
pbif4x40_06000e.sha256
pbif8x10_06000e.sha256
pbifmrj_06000e.sha256
pbifsp2_06000e.sha256
pbif-ber-g3_06000e.sha256
statsmrj_06000e.sha256
xgmacsp2_06000e.sha256
xpp2x100_06000e.sha256
xpp20x10g3_06000e.sha256
xpp2x100g3_06000e.sha256
xpp4x40_06000e.sha256
xpp4x10g3_06000e.sha256
xpp8x10_06000e.sha256
xppmrj_06000e.sha256
xppsp2_06000e.sha256
xppxsp2_06000e.sha256

FPGA file names and supported modules

File Name	Supported Modules
pbif4x40	4x40G modules
pbif8x10	8x10G modules
pbifmrj	24x1G and 48x1G modules
pbifsp2	2x10G, 4x10G, 4x10G-x and 20x1G modules
statsmrj	24x1G and 48x1G modules
xgmacsp2	2x10G, 4x10G-x and 4x10G modules
xpp2x100	2x100G modules (double-wide CFP-based module)
xpp4x40	4x40G modules
xpp8x10	8x10G modules
xppmrj	24x1G and 48x1G modules
xppsp2	2x10G, 4x10G, and 20x1G modules
xpp4x10g3	4x10G and 4x1G (M) IPSEC modules
xppxsp2	4x10G-x
pbif-ber-g3	20x10G and 2x100G modules (-M and -X2)
xpp20x10g3	20x10G modules
xpp2x100g3	2x100G modules (half-slot CFP2-based module)
mbridge32	MBRIDGE32
mbridge	MBRIDGE
sbridge	Switch fabric modules
hsbridge	High speed switch fabric modules

Brocade NetIron CES and NetIron CER devices

NOTE: When upgrading Multi-Service Ironware for CES/CER, follow the manifest upgrade to ensure all required files are upgraded. Boot upgrade is not part of the manifest upgrade. If the boot image is R05.5.00 or older, upgrade the boot image

Required images for R6.0.00e software upgrade

-NETIRON_IRONWARE_VER CES-CERV6.0.00e

#=====

-DIRECTORY /Boot

ceb06000.bin

-DIRECTORY /Application

ce06000e.bin

-DIRECTORY /FPGA

pbifmetro_06000e.bin

-END_OF_IMAGES

-DIRECTORY /Signatures

ceb06000.sig

ce06000e.sig

pbifmetro_06000e.sig

ceb06000.sha256

ce06000e.sha256

pbifmetro_06000e.sha256
-DIRECTORY /MIBS
ce06000e.mib
ce06000e_std.mib

Manifest for Brocade Network Packet Broker devices

NOTE: When upgrading Multi-Service Ironware for MLX Series/XMR, follow the manifest upgrade to ensure all required files are upgraded. Boot upgrade is not part of the manifest upgrade. If the boot image is R05.6.00 or older, upgrade the boot image.

Required images for Network Packet Broker R6.0.00e software upgrade

```
-NETIRON_IRONWARE_VER XMR-MLXV6.0.00e
#=====
-DIRECTORY /Boot/InterfaceModule
xmlprm05900.bin
-DIRECTORY /Boot/ManagementModule
xmprm05900.bin
#Application Images
-DIRECTORY /Combined/FPGA
lpfpga_npb_06000e.bin
-DIRECTORY /Combined/Application
xm06000e.bin
-DIRECTORY /Monitor/InterfaceModule
xmlb06000.bin
-DIRECTORY /Monitor/ManagementModule
xmb06000.bin
-DIRECTORY /Application/ManagementModule
xmr06000e.bin
-DIRECTORY /Application/InterfaceModule
xmlp06000e.bin
-DIRECTORY /FPGA/InterfaceModule
pbif4x40_06000e.bin 2.05
pbif8x10_06000e.bin 2.24
pbifmrj_06000e.bin 4.04
pbifsp2_06000e.bin 4.02
statsmrj_06000e.bin 0.09
xgmacsp2_06000e.bin 0.17
xpp2x100_06000e.bin 1.05
xpp4x40_06000e.bin 6.00
xpp4x10g3_06000e.bin 5.00
xpp8x10_06000e.bin 1.08
xppmrj_06000e.bin 1.03
xppsp2_06000e.bin 1.01
xppxsp2_06000e.bin 1.01
pbif-ber-g3_06000e.bin 2.05
xpp20x10g3_npb_06000e.bin 6.14
xpp2x100g3_npb_06000e.bin 6.14
```

-DIRECTORY /FPGA/ManagementModule
mbridge32_06000e.xsvf 36
mbridge_06000e.xsvf 37
sbridge_06000e.mcs 6
hsbridge_06000e.mcs 17
-END_OF_IMAGES

-DIRECTORY /Signatures
xmlprm05900.sig
xmprm05900.sig
xmlb06000.sig
xmb06000.sig
xmr06000e.sig
xmlp06000e.sig
lpfpga_npb_06000e.sig
hsbridge_06000e.sig
mbridge_06000e.sig
mbridge32_06000e.sig
sbridge_06000e.sig
pbif4x40_06000e.sig
pbif8x10_06000e.sig
pbifmrj_06000e.sig
pbifsp2_06000e.sig
pbif-ber-g3_06000e.sig
statsmrj_06000e.sig
xgmacsp2_06000e.sig
xpp2x100_06000e.sig
xpp20x10g3_npb_06000e.sig
xpp2x100g3_npb_06000e.sig
xpp4x40_06000e.sig
xpp4x10g3_06000e.sig
xpp8x10_06000e.sig
xppmrj_06000e.sig
xppsp2_06000e.sig
xppxsp2_06000e.sig
xmlprm05900.sha256
xmprm05900.sha256
xmlb06000.sha256
xmb06000.sha256
xmr06000e.sha256
xmlp06000e.sha256
lpfpga_npb_06000e.sha256
hsbridge_06000e.sha256
mbridge_06000e.sha256
mbridge32_06000e.sha256
sbridge_06000e.sha256
pbif4x40_06000e.sha256
pbif8x10_06000e.sha256

pbifmrj_06000e.sha256
pbifsp2_06000e.sha256
pbif-ber-g3_06000e.sha256
statsmrj_06000e.sha256
xgmacsp2_06000e.sha256
xpp2x100_06000e.sha256
xpp20x10g3_npb_06000e.sha256
xpp2x100g3_npb_06000e.sha256
xpp4x40_06000e.sha256
xpp4x10g3_06000e.sha256
xpp8x10_06000e.sha256
xppmrj_06000e.sha256
xppsp2_06000e.sha256
xppxsp2_06000e.sha256
#MIBS:
-DIRECTORY /MIBS
xmr06000e.mib
xmr06000e_std.mib

Migration path

To establish an appropriate migration path from your current release of Brocade NetIron, consult your Brocade TAC representative (see the Preface of this document).

Upgrade and downgrade considerations

To upgrade to 6.0.00a, a two-step approach may be required. The two-step upgrade process is not required for CER or CES, and is applicable to MLXe and XMR only.

Scenario 1

Customers running releases 5.9.00a, 5.6.00ga, 5.6.00h, 5.8.00d, 5.7.00e or subsequent releases can directly upgrade to 6.0.00a using MLX06000a_Manifest.txt.

NOTE: If the System is not running one of the releases listed above, follow scenario 2 or scenario 3 mentioned below.

Scenario 2

To upgrade from 5.6.00c or any later release (other than the images mentioned in Scenario 1), a two-step approach is required.

1. Upgrade to 5.9.00b and reload the device.
2. Upgrade to 6.0.00a using MLX06000a_Manifest and reload the device.

Scenario 3

To upgrade to 6.0.00a from releases prior to R05.6.00c, use the following procedure.

1. Upgrade to 5.9.00b and reload the device.
2. Upgrade again to 5.9.00b and reload the device again. This ensures that the device will have the SHA256 signatures on the device if they are needed, for example for LP Auto-upgrade.
3. Upgrade to 6.0.00a with MLX06000a_Manifest.txt and reload the device.

Scenario 4

Use Scenario 4 if you want to use the following features specific to the NPB FPGA.

- Packet Timestamping
 - Source port labeling
 - NVGRE stripping
1. Upgrade to 6.0.00a using any of above scenarios based on the image from which the upgrade is being performed.
 2. Reload the device again and verify that the system is up with NI 6.0.00a.
 3. Configure the **fpga-mode-npb** command and save the configuration.
 4. Upgrade to the 6.0.00a NPB image using MLX_npb_06000a_Manifest.txt and reload the device.
 5. Make sure BR-MLX-10Gx20 and BR-MLX-100Gx2-CFP2 have NPB XPP images.
 6. Verify the system. Check the output of the **show version** command and the **show flash** command to make sure the image versions are correct. Check the output of the **show module** command to make sure the line cards are not in Interactive state due to FPGA mismatch. Interactive state is an error state due to FPGA mismatch.

Show output examples

The following examples provide excerpts of the command output.

Output example for the show version command

```
MLX-GVR#show version
System Mode: XMR
```

```
...
...
...
```

```
FPGA versions:
```

```
Valid PBIF Version = 2.05, Build Time = 5/20/2015 22:20:00
```

```
Valid XPP Version = 6.14 (NPB), Build Time = 5/18/2016 17:39:00
```

```
MACXPP100G 0
```

```
MACXPP100G 1
```

```
1199 MHz MPC P2010 (version 8021/1051) 599 MHz bus
```

```
512 KB Boot Flash (MX29LV040C), 66846720 Bytes (~64 MB) Code Flash (MT28F256J3)
```

```
3072 MB DRAM, 8 KB SRAM
```

```
...
...
```

```
Boot      : Version 5.9.0T175 Copyright (c) 1996-2015 Brocade Communications Systems,
Inc.
```

```
Compiled on Mar 19 2015 at 03:17:00 labeled as xmlprm05900
(449576 bytes) from boot flash
```

```
Monitor   : Version 6.0.0T175 Copyright (c) 1996-2015 Brocade Communications Systems,
Inc.
```

```
Compiled on Jun 7 2016 at 16:09:50 labeled as xmlb06000
```

(571513 bytes) from code flash
IronWare : Version 6.0.0aT177 Copyright (c) 1996-2015 Brocade Communications Systems, Inc.

Compiled on Jul 25 2016 at 11:27:22 labeled as xmlp06000a

(9529041 bytes) from Primary

FPGA versions:

Valid PBIF Version = 2.05, Build Time = 5/20/2015 22:20:00

Valid XPP Version = 6.14 (NPB), Build Time = 5/2/2016 12:00:00

...
...
...

All show version done

MLX-GVR#

Output example for the show flash command

MLX-GVR#show flash

~~~~~

...  
...  
...

~~~~~

Line Card Slot 1

Code Flash: Type MT28F256J3, Size 66846720 Bytes (~64 MB)

- o IronWare Image (Primary)
Version 6.0.0aT177, Size 9529041 bytes, Check Sum a2c5
Compiled on Jul 25 2016 at 11:27:22 labeled as xmlp06000a
- o IronWare Image (Secondary)
Version 5.7.0bT177, Size 7800332 bytes, Check Sum 5d75
Compiled on Oct 22 2014 at 20:08:46 labeled as xmlp05700b
- o Monitor Image
Version 6.0.0T175, Size 571513 bytes, Check Sum 4875
Compiled on Jun 7 2016 at 16:09:50 labeled as xmlb06000

Boot Flash: Type MX29LV040C, Size 512 KB

- o Boot Image
Version 5.9.0T175, Size 449576 bytes, Check Sum 3bc9
Compiled on Mar 19 2015 at 03:17:00 labeled as xmlprm05900

FPGA Version (Stored In Flash):

PBIF Version = 2.05, Build Time = 5/20/2015 22:20:00

XPP Version = 6.14 (NPB), Build Time = 5/18/2016 17:39:00

~~~~~

Line Card Slot 2

Code Flash: Type MT28F256J3, Size 66846720 Bytes (~64 MB)

- o IronWare Image (Primary)  
Version 6.0.0aT177, Size 9529041 bytes, Check Sum a2c5  
Compiled on Jul 25 2016 at 11:27:22 labeled as xmlp06000a
- o IronWare Image (Secondary)  
Version 5.7.0T177, Size 7794476 bytes, Check Sum 5e0c  
Compiled on Jun 26 2014 at 12:16:28 labeled as xmlp05700
- o Monitor Image  
Version 6.0.0T175, Size 571513 bytes, Check Sum 4875  
Compiled on Jun 7 2016 at 16:09:50 labeled as xmlb06000

```

Boot Flash: Type MX29LV040C, Size 512 KB
  o Boot Image
    Version 5.9.0T175, Size 449576 bytes, Check Sum 3bc9
    Compiled on Mar 19 2015 at 03:17:00 labeled as xmlprm05900
FPGA Version (Stored In Flash):
  PBIF Version = 2.05, Build Time = 5/20/2015 22:20:00

  XPP Version = 6.14 (NPB), Build Time = 5/2/2016 12:00:00

~~~~~
...
...
...

~~~~~
Line Card Slot 16
Code Flash: Type MT28F256J3, Size 66846720 Bytes (~64 MB)
  o IronWare Image (Primary)
    Version 6.0.0aT177, Size 9529041 bytes, Check Sum a2c5
    Compiled on Jul 25 2016 at 11:27:22 labeled as xmlp06000a
  o IronWare Image (Secondary)
    Version 5.7.0bT177, Size 7800332 bytes, Check Sum 5d75
    Compiled on Oct 22 2014 at 20:08:46 labeled as xmlp05700b
  o Monitor Image
    Version 6.0.0T175, Size 571513 bytes, Check Sum 4875
    Compiled on Jun 7 2016 at 16:09:50 labeled as xmlb06000
Boot Flash: Type MX29LV040C, Size 512 KB
  o Boot Image
    Version 5.9.0T175, Size 449576 bytes, Check Sum 3bc9
    Compiled on Mar 19 2015 at 03:17:00 labeled as xmlprm05900
FPGA Version (Stored In Flash):
  PBIF Version = 2.05, Build Time = 5/20/2015 22:20:00

  XPP Version = 6.14 (NPB), Build Time = 5/18/2016 17:39:00

~~~~~
All show flash done
MLX-GVR#

```

**Output example for the show module command**

```

MLX-GVR#show module
90
Module Status
Ports Starting MAC
M1 (upper):BR-MLX-MR2-X Management Module Active
M2 (lower):BR-MLX-MR2-X Management Module Standby(Ready State)
F1: NI-X-HSF Switch Fabric Module Active
F2: NI-X-HSF Switch Fabric Module Active
F3: NI-X-HSF Switch Fabric Module Active
F4:
S1: BR-MLX-10Gx20 20-port 1/10GbE Module CARD_STATE_UP
20 cc4e.2445.2300
S2: BR-MLX-100Gx2-CFP2 2-port 100GbE Module CARD_STATE_UP
2 cc4e.2445.2330
...
...
...

```



```
S15: BR-MLX-100Gx2-CFP2 2-port 100GbE Module CARD_STATE_UP
2 cc4e.2445.25a0
S16: BR-MLX-10Gx20 20-port 1/10GbE Module CARD_STATE_UP
20 cc4e.2445.25d0
MLX-GVR#
```

## OpenFlow upgrade and downgrade

When downgrading the system from R06.0.00a to R05.8.00, if there are any VRF interfaces which are enabled with OpenFlow, some unexpected IFL entries will be seen after moving to R05.8.00. These unexpected IFL entries may affect the L3VPN/6VPE traffic.

Brocade recommends removing OpenFlow from the VRF interfaces before downgrading the router to R05.8.00. For upgrade and migration considerations, refer to the latest version of the Brocade NetIron Software Upgrade Guide.

## Hitless upgrade support

Hitless Upgrade is supported from R06.0.00d to R06.0.00e.

# Limitations and restrictions

## Scalability

All scalability limits are subject to change. The limits noted in this section apply to all the platforms listed unless otherwise specified.

| Scalability limits               | Brocade MLXe Series |
|----------------------------------|---------------------|
| IPv4 non-default VRF routes      | 750K                |
| System max ip-route and ip-cache | 750K                |
| Address family IPv4 max-route    | 750K                |

## Compatibility and interoperability

- MLxe (NI6.0) and Vyatta (4.2R1) IPsec interop
- MLxe (NI5.9.0a) and ICX (8.0.41) IPsec interop
- MLxe (NI6.0) and BFO 1.2 interop

### **802.1BR and VN-tag header processing have the following limitations.**

- If the ingress port is on a 24x10 module, it is recommended to use a catch all Layer 2 Policy Based Routing (L2 PBR) to forward that traffic to a service port for VNTAG and 802.1BR header removal, followed by L2 and L3 PBR on the service port.
- Other ingress modules (8X10G etc) can separate the 802.1BR and VNTAG traffic to the service port using L2 PBR, and conduct L2/L3 PBR matching on the remaining traffic.
- 802.1BR header stripping and VN-tag header stripping features are supported in BR-MLX-40Gx4, BR-MLX-10Gx20, and BR-MLX-100Gx2-CFP2 modules.
- When using the 802.1BR header stripping and VN-tag header stripping features with loopback system configuration (intermediate card), support is only available on the BR-MLX-40Gx4 module. The 802.1BR header stripping and VN-tag header stripping configuration with loopback system is not supported on the BR-MLX-10Gx20 and BR-MLX-100Gx2-CFP2 modules.

## Important notes

### **Brocade NetIron CES device (512M memory) recommendations.**

- Brocade NetIron CES configured with any MPLS feature AND any Layer 2 or Layer 3 scalability running at maximum system values will run at borderline or below the threshold memory for normal runtime operation. This is NOT a recommended configuration in NetIron 6.0.00x. Customers on earlier NetIron versions should not upgrade to NetIron 6.0.00x.
- Brocade NetIron CES configured with any MPLS feature and any Layer 2 or Layer 3 scalability running at default system values will run above threshold memory for normal runtime operation. This is a supported configuration for NetIron 6.0.00x.
- Brocade NetIron CES configured with any Layer 2 or Layer 3 scalability running at maximum system values and without any MPLS feature will run above threshold memory for normal runtime operation. This is a supported configuration for NetIron 6.0.00x.

- MCT timers for CES/CER: Recommended timers for scaled environments are 1s for 3 tries.
- BFD for CES/CER: In highly scaled CES/CER environments, the implementation of BFD is not recommended.
- IPsec and Hitless Upgrade: A few IPsec tunnels may flap during HLOS window for certain highly scaled scenarios with short rekey timers.

### Optics adapters

- The NetIron 6.0.00a release includes support for the CFP2-TO-QSFP28-MOD optics adapter. Upon installation, expect a linkup time of approximately 10 seconds.

## Hardware Notes

MR management module is supported until R05.7.00, and not supported in NI R05.8.00 and later. The MR2 management module is required in NI R05.8.00 and later releases.

- If Gen1.1 line cards are present in a chassis, Gen3 modules cannot go to –X2 scale. In such cases, only the scale defined for Gen1.1 cards can be achieved. Gen1.1 cards will have to be removed from the chassis to achieve –X2 scale.
- On a chassis with Gen1.1 cards, it is strongly recommended to keep system-max values within the maximum supported in the CAM profile being used.
- With 1.8M IPv6 routes, during an MP switchover, protocol flaps or ND flaps could be encountered. The workaround is to use the following timer configuration –

```

ipv6 nd reachable-time 3000
!
!
!
address-family ipv6 unicast
 graceful-restart restart-time 1800
 graceful-restart stale-routes-time 1900
 graceful-restart purge-time 1950

```

- With –X2 scaling, it is recommended to limit BFD timers to >= 200ms using the command -
  - `bfd interval 200 min-rx 200 multiplier 3`
- With 2.4M IPv4 routes, BGP can take 3 to 4 minutes to learn routes on MP and 10 to 15 minutes to program routes on the LP. If the routes have MPLS next hops with several ECMP paths, learning can take up to 25 minutes.
- With 2M VPN routes configured, deleting 1000 VRFs or more within a few seconds might result in the MP and LP being out-of-sync. Workaround would be to leave a 5 second gap between deletion of every VRF.
- With –X2 scaling, LACP (short timer) flaps may be seen when an LP on which 2.4M IPv4 routes have been learned is reloaded.
- On BR-MLX-10Gx4-M-IPSEC, in 1G mode, when unencrypted traffic exceeds 99.9%, InErrors, may be seen in the “show statistics” output. These are seen as FCS errors (as shown below). This issue can be seen on the four 1G ports, as well as the four 10G/1G ports when operating in 1G mode, with non- IPsec traffic.
- 100% throughput can be achieved on BR-MLX-10Gx4-M-IPSEC with IPsec traffic.

```
Router#sh st e 1/6
```

```

PORT 1/6 Counters:
 InOctets 7831740944 OutOctets 7831962000
 InPkts 870257 OutPkts 870218

```

|                 |           |                   |           |
|-----------------|-----------|-------------------|-----------|
| InBroadcastPkts | 0         | OutBroadcastPkts  | 0         |
| InMulticastPkts | 0         | OutMulticastPkts  | 0         |
| InUnicastPkts   | 870131    | OutUnicastPkts    | 870218    |
| InDiscards      | 0         | OutDiscards       | 0         |
| InErrors        | 126       | OutErrors         | 0         |
| InCollisions    | 0         | OutCollisions     | 0         |
|                 |           | OutLateCollisions | 0         |
| Alignment       | 0         | FCS               | 126       |
| InFlowCtrlPkts  | 0         | OutFlowCtrlPkts   | 0         |
| GiantPkts       | 0         | ShortPkts         | 0         |
| InBitsPerSec    | 997746326 | OutBitsPerSec     | 997737206 |
| InPktsPerSec    | 13859     | OutPktsPerSec     | 13857     |
| InUtilization   | 99.99%    | OutUtilization    | 99.99%    |

- 100G CFP2 ER4 optic is supported on the MLXe 2-port 100GbE CFP2 line card with hardware revision 15 or later only. Use the *show version slot* command to check the hardware version of the line card and confirm that the part number (underlined in the example below) is -15 or later.

Syntax: **show version slot** <slot number>

```

MLX#sh ver sl 4
=====
SL 4: BR-MLX-100Gx2-CFP2 2-port 100GbE Module (Serial #: CWC0440K027, Part #:
60-1002934-15)
License: 2x100GbE-X2-Scaling-UPG (LID: eyeFJJFmFHM)
Boot : Version 5.9.0T175 Copyright (c) 1996-2015 Brocade Communications
Systems, Inc.
Compiled on Mar 19 2015 at 03:17:00 labeled as xmlprm05900
(449576 bytes) from boot flash
Monitor : Version 5.9.0T175 Copyright (c) 1996-2015 Brocade Communications
Systems, Inc.
Compiled on Mar 19 2015 at 03:17:18 labeled as xmlb05900
(568786 bytes) from code flash
IronWare : Version 5.9.0pT177 Copyright (c) 1996-2015 Brocade Communications
Systems, Inc.
Compiled on Nov 18 2015 at 17:02:00 labeled as xmlp05900p112
(9481314 bytes) from Primary
FPGA versions:
Valid PBIFF Version = 2.05, Build Time = 5/20/2015 22:20:00

Valid XPP Version = 4.05, Build Time = 11/4/2015 13:51:00

MACXPP100G 0
MACXPP100G 1
1199 MHz MPC P2010 (version 8021/1051) 599 MHz bus
512 KB Boot Flash (MX29LV040C), 66846720 Bytes (~64 MB) Code Flash (MT28F256J3)
3072 MB DRAM, 8 KB SRAM, 286331153 Bytes (~274 MB) BRAM
LP Slot 4 uptime is 19 days 1 minutes 57 seconds

```

# TSBs

## TSBs—Critical issues to consider prior to installing this release

Technical Support Bulletins (TSBs) provide detailed information about high priority defects or issues present in a release. The following sections specify all current TSBs that have been identified as being a risk to or resolved with this specific release. Please review carefully and refer to the complete TSB for relevant issues prior to migrating to this version of code. TSBs can be found at <http://my.brocade.com> under the “*Technical Documentation*” section of the “*documentation*” tab (note that TSBs are generated for all Brocade platforms and products, so not all TSBs apply to this release).

### TSB issues resolved in 6.0c

---

| <b>TSB</b>            | <b>Summary</b>                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TSB 2016-249-A</b> | On a NetIron device running NetIron 05.8.00 and later releases up to and including 06.1.00, the management module may unexpectedly reload when a scanning tool is accessing the NetIron device to scan SSH port 22 continuously, corrupting the data structure of an existing SSH session. This may result in an unexpected reload. |
| <b>TSB 2016-248-A</b> | On a NetIron XMR/MLX device running NI 05.8.00 or later versions up to 06.1.00, GRE and IPv6-over-IPv4 traffic transiting through a non-default VRF will be dropped if “tunnel-mode” is configured.                                                                                                                                 |

---

### TSB issues resolved in 6.0ab

---

| <b>TSB</b>            | <b>Summary</b>                                                                                                                                                                                                                     |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TSB 2016-242-A</b> | For a critical defect (DEFECT 617836) causing unexpected MLX Line Card reloads. Brocade strongly recommends that all customers running the affected releases upgrade to releases with the fix, whether IPsec is configured or not. |

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## TSB issues resolved in 6.0

| <b>TSB</b>                | <b>Summary</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TSB 2016-232-A [1]</b> | When upgrading to NetIron 5.7.00 or later from any version prior to NetIron 5.7.00, any ACL with a name starting with a number will not be applied after reload.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>TSB 2016-233-A</b>     | With the default configuration, in 5.8.00d the MAC Port Security feature does not block non-secure MACs.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>TSB 2015-212-A [1]</b> | <p>This concerns a vulnerability in the Network Time Protocol (NTP) Project NTP daemon (ntpd) documented by CVE-2014-9296. The ntpd version 4.2.7 and previous versions allow attackers to overflow several buffers in a way that may allow malicious code to be executed.</p> <p>The NTP Project daemon implementation is widely used in operating system distributions and network products. This vulnerability affects ntpd acting as a server or client on a system in which not only is authentication configured, but an authentication error occurs.</p> |

# Defects

## Closed with code changes R06.0.00e

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 11/8/2017 in NI 6.0.00e.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Defect ID:</b> DEFECT000649776                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                              |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> Management Module module may unexpectedly reload with the following stack trace:-<br><br>Possible Stack Trace (function call return address list)<br>20adcd84: cu_optic_process_cfp_aggregate_optical_mon_parameter(pc)<br>20ade1e8: cu_get_aggregate_optical_parameter_from_object(lr)<br>20ade1e8: cu_get_aggregate_optical_parameter_from_object<br>208a98b4: snIfOpticalMonitoringInfoEntry_get_value<br>208a9e2c: snIfOpticalMonitoringInfoEntry_next<br>209642f4: SNMP_Process_Bulk_Redo<br>20966fb4: SNMP_Continue_function<br>20967088: process_packet_two<br>2096751c: process_packet_one<br>20967868: Process_Rcvd_SNMP_Packet_Async<br>20965504: Process_Received_SNMP_Packet<br>209919a4: snmp_receive_message<br>209943a0: snmp_udp_rcv_callback_common<br>209944ac: snmp_udp_rcv_callback<br>20ba0540: itc_process_msgs_internal<br>20ba09ec: itc_process_msgs<br>2099101c: snmp_task<br>00005e18: sys_end_task |                                                              |
| <b>Condition:</b> While inserting non-Brocade (Flex Optix) CFP2-QSFP28 adapter on a 2x100G-CFP2 Linecard module.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>Defect ID:</b> DEFECT000651122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> Low                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b> ARP - Address Resolution Protocol   |
| <p><b>Symptom:</b> Line card module may unexpectedly reload with the following stack trace:-<br/>Possible Stack Trace (function call return address list)</p> <pre> 20f0839c: fpip_process_pending_packets(pc) 20f08398: fpip_process_pending_packets(lr) 20f039d0: fpip_update_host_cache_entry 20f03b4c: fpip_update_host_cache_in_all_vrf 20f19544: arp_process_one_entry_pram_update 20d1e178: lp_cam_update_arp_entry_pram 20e23fb0: process_one_arp_update_lp 20f176ec: process_one_arp_update 20f17950: process_arp_dy_messages 20bd5818: process_dy_change_packet 20c1ca54: ipc_multi_module_handler 20c1efc8: ipc_process_messages 20c1f7a4: ipc_receive_packet 20036ce4: ge_process_ipc_data_msg 207f4f20: lp_ipc_task 00040158: sys_end_task </pre> |                                                        |
| <b>Condition:</b> It is rarely observed during a Line card bootup or a link flap between MCT clusters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Defect ID:</b> DEFECT000651855                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                          |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Probability:</b> Medium                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Technology Group:</b> Monitoring                      |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology:</b> OAM - Operations, Admin & Maintenance |
| <p><b>Symptom:</b> 2x100G-CFP2 Linecard module may unexpectedly reload with the following stack trace:-</p> <p>Possible Stack Trace (function call return address list)</p> <pre> 00069064: assert_dobule_free_large_memory(pc) 0006905c: assert_dobule_free_large_memory(lr) 00069274: free_memory_pool 00069918: free_memory 00065e80: dev_free_memory 00005024: xsyscall 2000105c: free 21610cb8: bcm_pm_if_cleanup 20026928: bcm_82790_uninit 209cd328: phy_adapter_removed 209b946c: phy_conn_check_existence 20a4086c: port_read_physical_existance 20a309ec: port_check_port_status 20a34900: port_link_status_poll 20a34404: port_status_poll 200058c0: perform_callback 200062c8: timer_timeout 00040160: sys_end_entry 0005e4a0: suspend 0005cf78: dev_sleep 00005024: xsyscall 207f3af4: main 00040158: sys_end_task </pre> |                                                          |
| <p><b>Condition:</b> While removing a non-Brocade (Flex Optix) CFP2-QSFP28 adapter from the 2x100G-CFP2 Line card module.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>Defect ID:</b> DEFECT000651950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Probability:</b> Low                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Management Module may unexpectedly reload with the following stack trace:-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |
| <p>Possible Stack Trace (function call return address list)</p> <p>54797064: (pc)</p> <p>20ac71d8: cu_show_int_lag_callback(lr)</p> <p>20ad8e04: cu_show_int_lag</p> <p>2044cc58: show_int_lag_all</p> <p>202e8754: call_action_func</p> <p>202e924c: parse_node</p> <p>202e8cc8: parse_node_recurse</p> <p>202e9514: parse_node</p> <p>202e8cc8: parse_node_recurse</p> <p>202e9514: parse_node</p> <p>2035cd28: parse_input</p> <p>2041c358: cli_aaa_accounting_callback</p> <p>207906c0: aaa_accounting_start</p> <p>2041bbac: cli_request_command_accounting</p> <p>202e913c: parse_node</p> <p>202e7790: parser</p> <p>2035cd04: parse_input</p> <p>20a94a74: ssh_event_handler</p> <p>20aa7ccc: ProcessChannelData</p> <p>20aa52e8: ShProcessMessage</p> <p>20aae688: ProcessClientInputData</p> <p>20aade20: ShFiniteStateMachine</p> <p>209b03cc: HandleProtocolAction</p> <p>209b01ac: HandleConnectionTask</p> <p>20a93644: ssh_connection_task</p> <p>20a93d90: ssh_socket_control</p> <p>20a96a2c: ssh_receive_data_ready</p> <p>20a96a70: ssh_tcp_receive_data_ready_callback</p> <p>20b9321c: itc_process_msgs_internal</p> <p>20b9</p> |                                                 |
| <b>Condition:</b> "Show interface lag" is executed frequently from one or more SSH sessions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 |

|                                                                                                                                       |                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Defect ID:</b> DEFECT000653092                                                                                                     |                                                             |
| <b>Technical Severity:</b> Medium                                                                                                     | <b>Probability:</b> Medium                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                    | <b>Technology Group:</b> MPLS                               |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> MPLS BFD session which has multiple path will go down and comes up.                                                   |                                                             |
| <b>Condition:</b> During LSP path switch BFD session will go down after 60 seconds and comes up. This happens only for adaptive LSPs. |                                                             |

|                                                                                                                                                                       |                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>Defect ID:</b> DEFECT000653095                                                                                                                                     |                                             |
| <b>Technical Severity:</b> Low                                                                                                                                        | <b>Probability:</b> Low                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                    | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> Sometimes when executing "show tech-support mpls" some of the commands would not show output, instead they'll show a message "invalid input -> mpls". |                                             |
| <b>Condition:</b> For show rsvp session in "show tech-support mpls".                                                                                                  |                                             |

## Closed with code changes R06.0.00d

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 07/17/2017 in NI 6.0.00d.

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| <b>Defect ID:</b> DEFECT000599403                                                                                                                                |                                           |
| <b>Technical Severity:</b> Medium                                                                                                                                | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                               | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                           | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> High LP CPU due to multicast traffic                                                                                                             |                                           |
| <b>Condition:</b> 1. Multiple PIM over MCT devices are connected through a Layer 2 network.<br>2. Sources and receivers are behind different PIM over MCT nodes. |                                           |

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| <b>Defect ID:</b> DEFECT000607807                                                           |                                                              |
| <b>Technical Severity:</b> Medium                                                           | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                          | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.7.00                                                      | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> SNMP query timeout and queue full condition may be seen with 20x10 modules. |                                                              |
| <b>Condition:</b> High rate of optic data query through multiple SNMP pollers.              |                                                              |
| <b>Workaround:</b> Reduce polling frequency of optic information.                           |                                                              |

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| <b>Defect ID:</b> DEFECT000614083                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology:</b> IPv6 Addressing                     |
| <b>Symptom:</b> Line card may reset and become stuck in a rolling reboot with the following stack trace:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |
| <pre> Exception Type 1200 (Data TLB error), lp 0202d030: msr 00000c06: dear 00800000: esr 2072bc50: nh6_get_cpu_no_rl_nh_index_by_vrf(pc) 2072bc48: nh6_get_cpu_no_rl_nh_index_by_vrf(lr) 204c64b4: lp_cam_add_ipv6_route 20746318: ip6_add_cache_to_cam 2074ed30: ipv6_add_address_to_cache 2074ef0c: ipv6_slave_setup_link_local_address_for 20738aec: ipv6_slave_do_port_state_change 2073d6b4: ipv6_ipc_port_config 203ae4c8: ipc_multi_module_handler 200b13c8: lp_assist_ipc_request_send 203b0a7c: ipc_process_messages 203b1264: ipc_receive_packet 203abb20: ge_process_ipc_data_msg 203abea8: ge_process_ipc_msg 200bb6ac: metro_sys_loop 200b1088: main 00040158: sys_end_task </pre> |                                                        |
| <b>Condition:</b> (1) CER device - NetIron CER 2024F<br>(2) After device reload with IPv6 configuration enabled on VRF interface<br>(3) This defect is applicable for NetIron 05.8.00d and later releases up to and including 06.1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |
| <b>Recovery:</b> Remove and add the IPv6 configuration after reload.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                        |

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| <b>Defect ID:</b> DEFECT000614901                                                                                                                                                                           |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                           | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                          | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                      | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Interfaces stay down on MLX 10Gx20 with 1G SFPs and do not come up even on disable/enable.                                                                                                  |                                                 |
| <b>Condition:</b> The issue is seen when<br>- chassis is loaded with default config,<br>- MLX 10x20G card is inserted without the optics, and<br>- 1G SFPs are then inserted fairly fast on the interfaces. |                                                 |

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| <b>Defect ID:</b> DEFECT000623761                                                                                                                                                                                            |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                              | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                           | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                       | <b>Technology:</b> GRE - Generic Routing Encapsulation |
| <b>Symptom:</b> GRE and IPv6-over-IPv4 traffic transiting through a non-default VRF on a NetIron XMR/MLX is dropped.                                                                                                         |                                                        |
| <b>Condition:</b> When a tunnel (GRE or IPsec) is configured on a Net Iron XMR/MLX device using the command “tunnel-mode”, GRE and IPv6-over-IPv4 traffic transiting through non-default VRFs in the device will be dropped. |                                                        |
| <b>Workaround:</b> Encapsulated (GRE, IPv6-over-IPv4) traffic ingressing the device through default VRF is not affected.                                                                                                     |                                                        |

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| <b>Defect ID:</b> DEFECT000626659                                                                                                                                                                                                                                                                                  |                                 |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                    | <b>Probability:</b> Medium      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                 | <b>Technology Group:</b> MPLS   |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                             | <b>Technology:</b> IP over MPLS |
| <b>Symptom:</b> L3VPN Traffic loss.                                                                                                                                                                                                                                                                                |                                 |
| <b>Condition:</b> An L3VPN VRF in PE has both EBGp as well as connected route for a prefix and connected routes are redistributed into BGP. Later if the redistribution of connected routes into BGP is removed in that L3VPN VRF, traffic loss will occur for that prefix, though an alternate EBGp route exists. |                                 |

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| <b>Defect ID:</b> DEFECT000627602                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Probability:</b> Medium                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> On configuring "phy-mode wan", the line card may unexpectedly reload with the below stack trace:<br><br>Possible Stack Trace (function call return address list)<br>209ad868: phy_wan_process_10g_alarm(pc)<br>209ad7c0: phy_wan_process_10g_alarm(lr)<br>20a21ac4: port_alarm_status_poll<br>200058b0: perform_callback<br>200062b8: timer_timeout<br>00040160: sys_end_entry<br>0005e49c: suspend<br>0005cf74: dev_sleep<br>00005024: xsyscall<br>207ebd44: main<br>00040158: sys_end_task |                                               |
| <b>Condition:</b> When "phy-mode wan" is configured on a 20x10G linecard module for any of the ports between 9 to 20.<br><br>NOTE: Applicable only for 20x10G module.                                                                                                                                                                                                                                                                                                                                        |                                               |

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| <b>Defect ID:</b> DEFECT000629158                                                                                        |                                       |
| <b>Technical Severity:</b> High                                                                                          | <b>Probability:</b> Medium            |
| <b>Product:</b> Brocade NetIron OS                                                                                       | <b>Technology Group:</b> Security     |
| <b>Reported In Release:</b> NI 05.8.00                                                                                   | <b>Technology:</b> SSH - Secure Shell |
| <b>Symptom:</b> Unable to establish SSH\TELNET connection to the device due to low memory condition on Management Module |                                       |
| <b>Condition:</b> SSH connections are repeatedly established and terminated using DSA host keys.                         |                                       |
| <b>Workaround:</b> Configure RSA host key instead of DSA host key to establish SSH connection.                           |                                       |

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| <b>Defect ID:</b> DEFECT000629952                                                                                                 |                                                         |
| <b>Technical Severity:</b> High                                                                                                   | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.8.00                                                                                            | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> UDP fragmented packets are dropped in MLX.                                                                        |                                                         |
| <b>Condition:</b> (1) Layer 4 ACL applied on egress interface<br>(2) acl-frag-conservative command is configured under acl-policy |                                                         |

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| <b>Defect ID:</b> DEFECT000631585                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b> Low                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology:</b> Static Routing (IPv4)               |
| <p><b>Symptom:</b> Device reloads unexpectedly with the following stack trace :-</p> <p>Possible Stack Trace (function call return address list)</p> <p>20089f50: puma_add_next_hop_route_entry(pc)</p> <p>20089ee8: puma_add_next_hop_route_entry(lr)</p> <p>200861f0: puma_vpram_write</p> <p>202e1588: chancer_ppcr_update_pram_entry</p> <p>204d3e18: lp_update_host_entry_puma</p> <p>2006ad5c: lp_update_rpf_entry_host_puma</p> <p>2006af6c: update_next_hop_hosts</p> <p>2007372c: nh_set_and_update_loose_urpf_mode</p> <p>205d8084: increment_loose_mode_count</p> <p>205d4830: metro_ip_rpf_change_port_rpf_mode</p> <p>2052a200: velp_ipc_set</p> <p>203b3b24: ipc_multi_module_handler</p> <p>200ae07c: lp_assist_ipc_request_send</p> <p>203b6330: ipc_process_messages</p> <p>203b6b3c: ipc_receive_packet</p> <p>203b1180: ge_process_ipc_data_msg</p> <p>203b1544: ge_process_ipc_msg</p> <p>200b86dc: metro_sys_loop</p> <p>200add3c: main</p> |                                                        |
| <p><b>Condition:</b> On a CES/CER device, when RPF loose mode is enabled on a VE interface like shown below:-</p> <pre> Conf t reverse-path-check interface ve 10 rpf-mode loose </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |

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| <b>Defect ID:</b> DEFECT000632071                                                                                                                                                                                                                                                                                                                                                                                                    |                                                              |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology Group:</b> IP Multicast                        |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology:</b> IGMP - Internet Group Management Protocol |
| <b>Symptom:</b> IGMP snoop (S,G) entries are also added in untagged VLAN for tagged VLAN traffic.                                                                                                                                                                                                                                                                                                                                    |                                                              |
| <b>Condition:</b> 1.Enable sFlow globally<br>2.Enable sFlow forwarding on interface<br>3.Start the multicast traffic for tagged vlan<br><br>For instance:-<br><br>vlan 102 name igmpsnoop<br>tagged ethe 1/13 to 1/14 ethe 2/1<br>multicast passive<br>!<br>vlan 111 name untag<br>untagged ethe 1/13 to 1/14<br>multicast passive >> S,G entry created for untagged VLAN 111 as well, when traffic is received with tagged VLAN 102 |                                                              |

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| <b>Defect ID:</b> DEFECT000632073                                                    |                                                         |
| <b>Technical Severity:</b> High                                                      | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                   | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 05.8.00                                               | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> High LP CPU due to multicast traffic hitting around every 30seconds. |                                                         |
| <b>Condition:</b> PIM over MCT with intermediate PIM router.                         |                                                         |

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| <b>Defect ID:</b> DEFECT000632261                                                                                                                                                                                                                                                                                      |                                     |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                      | <b>Probability:</b> Low             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                     | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                 | <b>Technology:</b> Syslog           |
| <b>Symptom:</b> Periodic syslog messages are observed like below:<br><br>Jan 4 00:42:00:E:OPTICAL MONITORING: Tunable SFP+ port 1/7 Frequency error : 25.5 GHz.<br>Wavelength error: 0.000nm.<br>Jan 3 18:14:57:E:OPTICAL MONITORING: Tunable SFP+ port 1/7 Frequency error : -25.6 GHz.<br>Wavelength error: 0.000nm. |                                     |
| <b>Condition:</b> Tunable SFP+ optic connected to a port.                                                                                                                                                                                                                                                              |                                     |

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| <b>Defect ID:</b> DEFECT000633392                                                                                                 |                                                    |
| <b>Technical Severity:</b> Medium                                                                                                 | <b>Probability:</b> Low                            |
| <b>Product:</b> Brocade NetIron OS                                                                                                | <b>Technology Group:</b> Traffic Management        |
| <b>Reported In Release:</b> NI 05.4.00                                                                                            | <b>Technology:</b> Traffic Queueing and Scheduling |
| <b>Symptom:</b> The "show tm-voq-stat src_port eth x/y <queue-name>" doesn't displays correct packet counter value for CPU queues |                                                    |
| <b>Condition:</b> On Line cards like 24x1GC, 24x1GF, 48x1GC and 4x10G with CPU traffic.                                           |                                                    |



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| <b>Defect ID:</b> DEFECT000633962                                                                    |                                                              |
| <b>Technical Severity:</b> Medium                                                                    | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                   | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.7.00                                                               | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> The OID bgp4V2PeerAdminStatus does not return correct value.                         |                                                              |
| <b>Condition:</b> Polling SNMP OID bgp4V2PeerAdminStatus when BGP neighbor is administratively down. |                                                              |

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| <b>Defect ID:</b> DEFECT000633986                                                                                                                                                                                                                         |                                                           |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                         | <b>Probability:</b> Low                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                        | <b>Technology Group:</b> Layer 3 Routing/Network Layer    |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                    | <b>Technology:</b> OSPFv3 - IPv6 Open Shortest Path First |
| <b>Symptom:</b> The ASBR IPv6 router will not set the intended metric (ex: 1000) in its origination of EXT-LSA that was applied through a route-map, instead the origination contains the default (i.e 0) metric.                                         |                                                           |
| <b>Condition:</b> (1) The device is configured as an IPv6 OSPF router with route-map applied on the redistribution of either connected or static routes.<br>(2) The route-map has the match condition on IPv6 access-list with set metric for some value. |                                                           |

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| <b>Defect ID:</b> DEFECT000634244                                                                                                                                            |                                                            |
| <b>Technical Severity:</b> High                                                                                                                                              | <b>Probability:</b> High                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                           | <b>Technology Group:</b> Layer 3 Routing/Network Layer     |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                       | <b>Technology:</b> RIP - IPv4 Routing Information Protocol |
| <b>Symptom:</b> The neighbor router doesn't learn the route advertised by NetIron routers.                                                                                   |                                                            |
| <b>Condition:</b> (1) NetIron router has 2 routers as its neighbors and RIP is configured on all the routers.<br>(2) One of the router advertises a route to NetIron router. |                                                            |

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| <b>Defect ID:</b> DEFECT000634653                                                                                                                                                              |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                              | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                             | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                         | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Delay link event configuration works at 25ms per unit instead of 50ms as mentioned in CLI and Manual.                                                                          |                                        |
| <b>Condition:</b> When delay link event is configured on CES/CER device as below.<br>CES2(MLX)(config-if-e10000-1/1)#delay-link-event<br>DECIMAL delay time in number of 50-ms units (0 - 200) |                                        |
| NOTE: This defect is not applicable for MLX.                                                                                                                                                   |                                        |

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| <b>Defect ID:</b> DEFECT000634992                                                                                                                                                                                                   |                                                |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                   | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                  | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                              | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Ipv6 access-list accounting does not include TCP packet counts.                                                                                                                                                     |                                                |
| <b>Condition:</b> IPv6 ACL rule for TCP port number with "established" option like below:<br><br>permit enable-accounting tcp x:x:x:x::y z:z:z:z::y eq telnet established<br><br>Note : This is applicable for CES/CER device only. |                                                |

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| <b>Defect ID:</b> DEFECT000635130                                                                              |                                                   |
| <b>Technical Severity:</b> Medium                                                                              | <b>Probability:</b> Medium                        |
| <b>Product:</b> Brocade NetIron OS                                                                             | <b>Technology Group:</b> Layer 2 Switching        |
| <b>Reported In Release:</b> NI 05.8.00                                                                         | <b>Technology:</b> xSTP - Spanning Tree Protocols |
| <b>Symptom:</b> OSPF Packets are sent through RSTP blocked port causing frequent MAC movements in the network. |                                                   |
| <b>Condition:</b> 1. RSTP configured on the device<br>2. OSPF must be enabled on the device                    |                                                   |

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| <b>Defect ID:</b> DEFECT000636007                                                                                                                                                         |                                                 |
| <b>Technical Severity:</b> High                                                                                                                                                           | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                        | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                    | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> InOctet and OutOctet counter values do not include the Ethernet framing overhead bytes.                                                                                   |                                                 |
| <b>Condition:</b> When executing "show statistics" command after enabling include-ethernet-framing-overhead configuration command.                                                        |                                                 |
| OR                                                                                                                                                                                        |                                                 |
| When polling the below SNMP OID's after enabling include-ethernet-framing-overhead configuration command.                                                                                 |                                                 |
| <ul style="list-style-type: none"> <li>• ifInOctets</li> <li>• ifOutOctets</li> <li>• ifHCInOctets</li> <li>• ifHCOctets</li> <li>• snSwIfInOctets</li> <li>• snSwIfOutOctets.</li> </ul> |                                                 |

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| <b>Defect ID:</b> DEFECT000636699                                               |                                                              |
| <b>Technical Severity:</b> Medium                                               | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                              | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.8.00                                          | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> SNMP Auth. failure messages are observed in syslog like below:- |                                                              |
| Jun 28 01:40:17:I:SNMP: Auth. failure, intruder IP: a.b.c.d, Interface: 1/8     |                                                              |
| <b>Condition:</b> When SNMP packets are dropped by ACL rule.                    |                                                              |

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| <b>Defect ID:</b> DEFECT000636927                                                                                                                                                                         |                                                         |
| <b>Technical Severity:</b> Medium                                                                                                                                                                         | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                        | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                    | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> "show running-config", doesn't display the OSPFv2 & v3 cost configured on the IP interfaces, if the configured cost is 1.                                                                 |                                                         |
| <b>Condition:</b> (1) The device should be configured as OSPFv2/v3 router.<br>(2) Configure the OSPFv2/v3 cost as 1 on the OSPF interface using the commands, "ip ospf cost 1" and/or "ipv6 ospf cost 1". |                                                         |
| <b>Workaround:</b> Any other cost other than 1 will display in the show running-config.                                                                                                                   |                                                         |

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| <b>Defect ID:</b> DEFECT000637658                                                                                                                                                                            |                                                   |
| <b>Technical Severity:</b> Medium                                                                                                                                                                            | <b>Probability:</b> Low                           |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                           | <b>Technology Group:</b> Layer 2 Switching        |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                       | <b>Technology:</b> xSTP - Spanning Tree Protocols |
| <b>Symptom:</b> Both the MCT CEP ports are stayed in Forwarding state and hence, causing a STP loop.                                                                                                         |                                                   |
| <b>Condition:</b> 1. The ring formed through MCT CEP ports are part of CLUSTER MEMBER VLAN<br>2. STP is enabled only on MCT nodes<br>3. Flapping the CEP port which is in Forwarding state on STP root node. |                                                   |
| <b>Workaround:</b> Enable STP on all other nodes which are part of CLUSTER MEMBER VLAN to avoid STP loop.                                                                                                    |                                                   |

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| <b>Defect ID:</b> DEFECT000638404                                                                                                                                                                                                                                                                                                                                                |                                                    |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b> Medium                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                               | <b>Technology Group:</b> Management                |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                           | <b>Technology:</b> Software Installation & Upgrade |
| <b>Symptom:</b> "lp auto-upgrade" on 20x10G module encounters below error:<br><br>Warning: The new LP XPP-20X10_G3 FPGA will not be compatible with the new LP 6 application.<br>Parsing bundle:Error:Invalid FPGA image in LP auto upgrade destination.<br>Copy correct FPGA in LP auto upgrade destination to recover.<br>LP Auto-upgrade will try to recover from this error. |                                                    |
| <b>Condition:</b> 1.Presence of MR2 management module<br>2.Presence of Gen3 cards like 20x10G, 2x100G-CFP2, 10Gx4-M-IPSEC<br>3."lp auto-upgrade slot1 2" in running configuration.                                                                                                                                                                                               |                                                    |

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| <b>Defect ID:</b> DEFECT000638919                                                                                                                                                                                                                           |                                              |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                           | <b>Probability:</b> Medium                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                          | <b>Technology Group:</b> Layer 2 Switching   |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                      | <b>Technology:</b> MRP - Metro Ring Protocol |
| <b>Symptom:</b> Sometimes packets are getting forwarded on a blocked port in MRP ring and causing loop in the network.                                                                                                                                      |                                              |
| <b>Condition:</b> 1) MRP ring should be configured on all the nodes in same VLAN.<br>2) Configure MRP Master in only one node in a ring.<br>3) Execute the "trace-l2 vlan <vid>" on MRP configured VLAN which shows the loop in the network intermittently. |                                              |

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| <b>Defect ID:</b> DEFECT000638945                                                                                                                                                    |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                      | <b>Probability:</b> Low                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                   | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                               | <b>Technology:</b> ARP - Address Resolution Protocol   |
| <b>Symptom:</b> Traffic destined to directly connected hosts may get dropped after a Hitless upgrade is performed.                                                                   |                                                        |
| <b>Condition:</b> When a line card's CAM mode is configured as "Algorithmic mode" using the CLI "cam-mode amod slot <slot_number>" and a hitless upgrade is performed on the device. |                                                        |

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| <b>Defect ID:</b> DEFECT000639058                                                                                                                                                                                                                                                                                                                                                       |                                                              |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                       | <b>Probability:</b> High                                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                      | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                  | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <p><b>Symptom:</b> "snmp- server community" configurations are not displayed completely when show running-configuration command is executed.</p> <p>For instance:-</p> <pre>snmp-server snmp-server community ..... ro ipv6 V6-SNMP-ACCESS "SNMP-ACCESS"  default snmp-server community configuration and snmp-server community keyword is missing before IPV4 ACL "SNMP-ACCESS".</pre> |                                                              |
| <b>Condition:</b> When both IPv6 ACL and IPv4 ACL is applied to the same SNMP community.                                                                                                                                                                                                                                                                                                |                                                              |

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| <b>Defect ID:</b> DEFECT000639158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 06.2.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Technology:</b> ACLs - Access Control Lists |
| <p><b>Symptom:</b> IPv6 ACL doesn't work on Layer2 traffic with this configuration "if-acl-inbound include-switched-traffic" enabled on physical interface.</p>                                                                                                                                                                                                                                                                                                                                                                                            |                                                |
| <p><b>Condition:</b> When IPv4 ACL with different set of ports is bounded to the same VE interface Where IPV6 ACL is also applied.</p> <p>For instance:-</p> <pre>vlan 1000 untagged ethe 2/1 to 2/4 router-interface ve 10  interface ve 10 ip access-group ve-traffic ip access-group 100 in ethernet 2/3 to 2/4 &gt;&gt; IPV4 ACL is not applied to 2/1 ipv6 enable ipv6 traffic-filter ipv6_acl in &gt;&gt; IPV6 ACL should be applied to all ports from 2/1 to 2/4.  interface ethernet 2/1 enable if-acl-inbound include-switched-traffic ipv6</pre> |                                                |

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| <b>Defect ID:</b> DEFECT000639343                                                                                                                                                                                                                                                    |                                                           |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                      | <b>Probability:</b> High                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                   | <b>Technology Group:</b> Layer 3 Routing/Network Layer    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                               | <b>Technology:</b> OSPFv3 - IPv6 Open Shortest Path First |
| <p><b>Symptom:</b> Connected prefixes redistributed by a PE are not getting calculated on other PEs in the network.</p>                                                                                                                                                              |                                                           |
| <p><b>Condition:</b> 1. Both the routers - originator of external information and the calculating router - are in ospf instance associated with user-defined vrfs<br/>2. Connected routes are redistributed into ospf in the user-defined vrf instance at the originator router.</p> |                                                           |
| <b>Workaround:</b> Configure vrf-lite under ospf instance.                                                                                                                                                                                                                           |                                                           |
| <b>Recovery:</b> Configure vrf-lite under ospf instance.                                                                                                                                                                                                                             |                                                           |

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| <b>Defect ID:</b> DEFECT000641296                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology:</b> ACLs - Access Control Lists |
| <p><b>Symptom:</b> Management Module reloads unexpectedly with the following stack trace:-</p> <p>Possible Stack Trace (function call return address list)</p> <pre> 22390730: strncpy(pc) 206c626c: cli_rl_in_acl_policymap(lr) 202d4e9c: call_action_func 202d5994: parse_node 202d5410: parse_node_recurse 202d5c5c: parse_node 202d5410: parse_node_recurse 202d5c5c: parse_node 202d5410: parse_node_recurse 202d5c5c: parse_node 202d5410: parse_node_recurse 202d5c5c: parse_node 202d5410: parse_node_recurse 202d5c5c: parse_node 2034778c: parse_input 204013b8: cli_aaa_accounting_callback 2073c4cc: aaa_accounting_start 20400c0c: cli_request_command_accounting 202d5884: parse_node 202d3f98: parser 20347768: parse_input 20a1d8b4: ssh_event_handler 20a30174: ProcessChannelData 20a2da84: ShProcessMessage 20a3672c: ProcessClientInputData 20a35ee4: ShFiniteStateMachine 2093f520: HandleProtocolAction 2093f300: HandleConnectionTask 20a1c4b8: ssh_connection_task 20a1cc04: ssh_sock </pre> |                                                |
| <p><b>Condition:</b> While applying a rate-limit configuration with Invalid ACL or Non-existing ACL index.</p> <p>For instance:-</p> <ol style="list-style-type: none"> <li>Invalid ACL – where 4011 is out of UDA ACL range<br/>rate-limit input access-group 4011 priority q1 499992736 33553900</li> <li>Non-existing ACL – where there is no such ACL 198 is configured<br/>rate-limit input access-group 198 priority q1 499992736 33553900</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                |

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| <b>Defect ID:</b> DEFECT000642955                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                             |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Probability:</b> Medium                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Technology Group:</b> MPLS                               |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <p><b>Symptom:</b> Device may unexpectedly reload with the following stack trace:-</p> <p>Possible Stack Trace (function call return address list)</p> <pre> 214abf9c: mpls_find_ldp_pkt_filter_data(pc) 214abf8c: mpls_find_ldp_pkt_filter_data(lr) 214ac294: mpls_trace_match_pkt 214af97c: mpls_trace_match_filter_args 213a5314: ntl_filter 219fe3c0: rcsn_process_msg 219fc798: rcsn_parse_received_buffer 21a0b61c: rcsn_rcv_session_sck_msg 21a0a70c: rcsn_rcv_sck_msg 21a2c650: rcsp_fwd_ips_to_sub_cmpnt 21a2bfa0: rcsp_fwd_ip_sock_on_sock_type 21a2bc84: rcs_receive_proc 212f6020: nbb_dispatch_process 212f5504: nbb_schedule_one 212f5938: nbb_scheduler 213036d4: nbb_spin_start 212f8ee4: nbs_spin_start 214fc6c4: ldp_tcp_receive_callback 214cf9e4: mpls_tcp_receive_data_ready_itc_callback 20a4b768: itc_process_msgs_internal 20a4baa0: itc_process_msgs 215328d0: mpls_task 00005e18: sys_end_task </pre> |                                                             |
| <p><b>Condition:</b> (1) MPLS is running with LDP as control protocol<br/> (2) The following LDP packet debug is enabled<br/> debug mpls ldp packets direction send lsr-id x.x.x.x 0<br/> debug mpls ldp packets direction receive lsr-id x.x.x.x 0<br/> debug mpls ldp state lsr-id x.x.x.x 0<br/> (3) Issue the show command "show mpls config   in xxx".</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                             |

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| <b>Defect ID:</b> DEFECT000643850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Probability:</b> Medium                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> High CPU usage condition is observed in MPLS task, in the range of 85 to 97%. Due to this some protocol sessions like LDP, VLL might flap.                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |
| <b>Condition:</b> High CPU condition is seen when below all conditions are met <ol style="list-style-type: none"> <li>1. Large number (more than 1000) of facility backup FRR LSPs are at ingress and/or transiting the node.</li> <li>2. Dynamic bypass is enabled at outgoing interfaces of FRR LSPs</li> <li>3. MPLS TE Database is very large (say more than 50 nodes and/or 150 links)</li> <li>4. Multiple facility backup LSPs need separate dynamic bypass LSPs to use OR CSPF Route is not available for the backup requested dynamic bypass LSPs to be created and established.</li> </ol> |                                             |
| <b>Workaround:</b> By increasing the backup-retry-time under mpls policy config mode to 600 seconds would help to reduce the CPU usage.<br>Additionally by increasing the revert-timer of the ingress FRR LSP from default 5 seconds to a higher value would also help to reduce the CPU usage.<br>Please note that above two measure may not stop the high CPU condition completely.                                                                                                                                                                                                                |                                             |
| <b>Recovery:</b> System can be recovered by disabling dynamic bypass globally on the router, after making sure FRR LSPs are not actively using dynamic bypass LSP for their traffic.<br>This would make all facility backup LSPs to be unprotected if there are no already setup static bypass LSPs to protect them.                                                                                                                                                                                                                                                                                 |                                             |

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| <b>Defect ID:</b> DEFECT000644262                                                                                                                                                                                                                                          |                                            |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                          | <b>Probability:</b> Medium                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                         | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                     | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> Observing the error "Exceeding Openflow System-max for Unprotected VLANs".                                                                                                                                                                                 |                                            |
| <b>Condition:</b> <ol style="list-style-type: none"> <li>1. On CES/CER with Openflow disabled</li> <li>2. Adding untagged port on VLAN within ESI</li> </ol> <p>For instance:-</p> <pre> conf t esi NAME encapsulation svlan vlan 4 name VLAN_NAME untagged eth 1/6 </pre> |                                            |

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| <b>Defect ID:</b> DEFECT000644828                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Device may unexpectedly reload with the following stack trace:-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |
| <p>Possible Stack Trace (function call return address list)</p> <p>206f3f1c: lp_cam_add_ip_multicast_session_entry(pc)</p> <p>206f3ee0: lp_cam_add_ip_multicast_session_entry(lr)</p> <p>206ebe6c: mcast_filter_install_cam_entry</p> <p>206eb7f4: mcast_filter_entry_add</p> <p>206eb1e8: mcastlp_process_filter</p> <p>206fa250: pim_port_state_notify</p> <p>206ff160: process_one_vif_update</p> <p>206ff494: process_vif_dy_messages_internal</p> <p>20700c8c: process_vif_dy_messages</p> <p>203835b4: process_dy_change_packet</p> <p>203b9320: ipc_multi_module_handler</p> <p>203bbb5c: ipc_process_messages</p> <p>203bc338: ipc_receive_packet</p> <p>203b6958: ge_process_ipc_data_msg</p> <p>203b6d1c: ge_process_ipc_msg</p> <p>200bc2f0: metro_sys_loop</p> <p>200b1950: main</p> <p>00040158: sys_end_task</p> |                                                         |
| <b>Condition:</b> Configure "pim multicast filter" and apply it on a GRE tunnel interface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| Note: This is applicable only for CES/CER devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                         |

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| <b>Defect ID:</b> DEFECT000644878                                                                                                                                                                                                              |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                             | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 06.1.00                                                                                                                                                                                                         | <b>Technology:</b> GRE - Generic Routing Encapsulation |
| <b>Symptom:</b> Traffic coming through a GRE tunnel terminating on MCT peer, destined to MCT clients is not forwarded out on MCT peer (CER/CES).                                                                                               |                                                        |
| <b>Condition:</b> When a GRE tunnel is configured to be terminating on the ICL port on an MCT peer (CER/CES), the encapsulated traffic coming on the GRE tunnel that is further destined to MCT clients are not forwarded out of the MCT peer. |                                                        |



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| <b>Defect ID:</b> DEFECT000645319                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <p><b>Symptom:</b> Management module may reload unexpectedly with the following stack trace:-</p> <p>Possible Stack Trace (function call return address list)</p> <pre> 216063fc: mpls_get_tunnel_mask(pc) 216063ac: mpls_get_tunnel_mask(lr) 20ae30f4: mpls_vll_stat_get_inbound_stats_from_lp 20ae3878: get_mpls_vll_stat_from_lp 20ae3e50: cu_get_mpls_vll_specific_stat 208947fc: ag_get_l2vpn_stats_if_needed_internal 20894e44: fdryVllEndPointEntry_next 20956744: SNMP_Process_Next_PDU 20959c38: process_packet_two 2095a0f0: process_packet_one 2095a43c: Process_Rcvd_SNMP_Packet_Async 209580d8: Process_Received_SNMP_Packet 20984544: snmp_receive_message 20986f28: snmp_udp_rcv_callback_common 20987034: snmp_udp_rcv_callback 20b9321c: itc_process_msgs_internal 20b936c8: itc_process_msgs 20983bbc: snmp_task 00005e18: sys_end_task </pre> |                                                              |
| <p><b>Condition:</b> 1) MPLS is enabled on VE interface 4040 and above range.<br/> 2) When polling SNMP table: fdryVllEndPointTable (OID: 1.3.6.1.4.1.1991.1.2.15.2.1.1) with VLL configured on the device.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |
| <p><b>Workaround:</b> Disable SNMP polling for the table: “fdryVllEndPointTable” by applying below configuration command.<br/> Router(config)#snmp-server disable mib vll-ep</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |

## Closed with code changes R06.0.00c

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 03/17/2017 in NI 6.0.00c.

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| <b>Defect ID:</b> DEFECT000561392                                                      |                                                                        |
| <b>Technical Severity:</b> Medium                                                      | <b>Probability:</b> High                                               |
| <b>Product:</b> Brocade NetIron OS                                                     | <b>Technology Group:</b> Monitoring                                    |
| <b>Reported In Release:</b> NI 05.6.00                                                 | <b>Technology:</b> RAS - Reliability, Availability, and Serviceability |
| <b>Symptom:</b> Port with non-brocade TWINAX SFPP optic may go down.                   |                                                                        |
| <b>Condition:</b> Presence of non-brocade TWINAX SFPP optic on 8x10G line card module. |                                                                        |

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| <b>Defect ID:</b> DEFECT000573260                                                                                                                                                      |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                        | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                     | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                                                                 | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> When pinging a device directly connected to the CES from a host several router hops away, the ping traffic gets stuck in a routing loop.                               |                                                        |
| <b>Condition:</b> On CER/CES platform, with non-major network subnets (subnets that are not /8, /16, /24 or /32) present in network with 100s of hosts directly connected to the node. |                                                        |
| <b>Recovery:</b> clear ip ospf route all.                                                                                                                                              |                                                        |

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| <b>Defect ID:</b> DEFECT000603754                                                                                                                                                                                                                                                                                                                                                |                              |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> High     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                               | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                           | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> Customer may not see syslog when SSL session gets closed due to some issues. When a controller or its TCP/IP stack runs into an issue and terminates the TCP or SSL session, this remote event was not handled by the switch to log the informational event of closing the connection. While normal close and keep-alive timeouts have been handled and working. |                              |
| <b>Condition:</b> Abnormal closure of SSL/TCP connection initiated by the Openflow controller. This event might not be logged by the switch.                                                                                                                                                                                                                                     |                              |

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| <b>Defect ID:</b> DEFECT000612470                                                                                                                                                                                                                                                        |                                             |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                          | <b>Probability:</b> High                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                       | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                   | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> LSP will not be established if LSP destination address is not the router id but any other address on the destination router.                                                                                                                                             |                                             |
| <b>Condition:</b> 1) Destination address of the LSP is not same as the router id of that destination router, but some other address on the router.<br>2) LSP nexthops are calculated if that destination router is the DR on that interface. Otherwise, LSP nexthops are not calculated. |                                             |

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| <b>Defect ID:</b> DEFECT000615076                                                                                                   |                                                         |
| <b>Technical Severity:</b> High                                                                                                     | <b>Probability:</b> Low                                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                  | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 05.6.00                                                                                              | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> With PIM-DM, “show ip pim mcache” shows OIFs continually added and deleted for a group. There is no traffic impact. |                                                         |
| <b>Condition:</b> If PIM-DM is configured and multicast boundary for the group is applied only on incoming interface.               |                                                         |
| <b>Workaround:</b> Apply multicast boundary for the group on both incoming and outgoing PIM-DM interfaces.                          |                                                         |

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| <b>Defect ID:</b> DEFECT000621970                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Probability:</b> Medium            |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Technology Group:</b> Security     |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology:</b> SSH - Secure Shell |
| <b>Symptom:</b> Management module may unexpectedly reload with below stack trace:-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| <p>EXCEPTION 1200, Data TLB error</p> <p>Task : ssh_0</p> <p>Possible Stack Trace (function call return address list)</p> <p>20a7239c: ShFinishPacket(pc)</p> <p>20a6b0bc: ShBuildDhKeyExchangeReply(lr)</p> <p>20a6b0bc: ShBuildDhKeyExchangeReply</p> <p>20a6e620: ProcessClientDhMessage</p> <p>20a6d9ec: ShProcessMessage</p> <p>20a76b20: ProcessClientInputData</p> <p>20a76414: ShFiniteStateMachine</p> <p>20979d98: HandleProtocolAction</p> <p>20979b78: HandleConnectionTask</p> <p>20a5c364: ssh_connection_task</p> <p>20a5cab0: ssh_socket_control</p> <p>20a5f718: ssh_receive_data_ready</p> <p>20a5f75c: ssh_tcp_receive_data_ready_callback</p> <p>20b55668: itc_process_msgs_internal</p> <p>20b55b14: itc_process_msgs</p> <p>20a57d24: ssh_in_task</p> <p>00005e18: sys_end_task</p> |                                       |
| <b>Condition:</b> This can happen if a port scanning tool is scanning the SSH port on the device. The unexpected reset is seen after more than one SSH session has been opened and closed and while at least one session is active or in the process of being established.<br>Note: - This defect is applicable for NetIron 05.8.00 and later releases up to and including 06.1.00.                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| <b>Workaround:</b> Stop any known port-scanning tools scanning SSH port 22 to the device. Restrict SSH access only to authorized users by using access-list.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |
| <p>To configure an ACL to permit allowed hosts, enter commands such as the following:</p> <p>device(config)# access-list 12 permit host x.x.x.x</p> <p>device(config)# ssh access-group 12</p> <p>device(config)# write memory</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |

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| <b>Defect ID:</b> DEFECT000623395                                                                                                                                                 |                                                |
| <b>Technical Severity:</b> High                                                                                                                                                   | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                            | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> After line card reload, traffic is not rate limited based on L2 ACL on secondary LAG member ports.                                                                |                                                |
| <b>Condition:</b> Bind an L2 ACL rate-limit on a multi slot LAG with primary and secondary ports in different slot and then reboot the line Card which has secondary port of LAG. |                                                |

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| <b>Defect ID:</b> DEFECT000623624                                                                                                                                                                                |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                  | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                           | <b>Technology:</b> ARP - Address Resolution Protocol   |
| <b>Symptom:</b> When initiating a flow to a remote host across an MCT cluster, the first few packets may get lost (for example, no response is received for the first few pings).                                |                                                        |
| <b>Condition:</b> This occurs in MCT topology and affects routed packets when the ARP response from the host takes the path through ICL port.<br>This is seen on MLXe and CER/CES platforms across all releases. |                                                        |

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| <b>Defect ID:</b> DEFECT000623760                                                                                                                                                                    |                                                           |
| <b>Technical Severity:</b> High                                                                                                                                                                      | <b>Probability:</b> Medium                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                   | <b>Technology Group:</b> Layer 3 Routing/Network Layer    |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                               | <b>Technology:</b> OSPFv3 - IPv6 Open Shortest Path First |
| <b>Symptom:</b> OSPFv3 on VEOVPLS gets stuck in EXCH/EXST state.                                                                                                                                     |                                                           |
| <b>Condition:</b> (1) OSPFv3 neighborship is to be configured between the PE router.<br>(2) PE on the other end has a connection to a router on which OSPFV3 is enabled and not part of MPLS domain. |                                                           |

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| <b>Defect ID:</b> DEFECT000624330                                                                                                                                                                                                                           |                                                    |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                             | <b>Probability:</b> High                           |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                          | <b>Technology Group:</b> Traffic Management        |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                      | <b>Technology:</b> Traffic Queueing and Scheduling |
| <b>Symptom:</b> Egress traffic capped at 11% on port in BR-MLX-10Gx20 card even though the port is running at 10G speed.                                                                                                                                    |                                                    |
| <b>Condition:</b> Issue noticed when the particular port on the BR-MLX-10Gx20 card in which the egress traffic is capped at 11% was booted up with a 1G optic and the 1G optic was replaced with a 10G optic after the line card became operationally "UP". |                                                    |

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| <b>Defect ID:</b> DEFECT000624548                                                                                                                                                                                                                                       |                                             |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                       | <b>Probability:</b> Medium                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                      | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                  | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> MPLS LSPs may flap between primary path and bypass path for no obvious reason when ISIS is used as IGP and MPLS LSPs configured through ISIS path with ISIS MD5 authentication enabled at global level and MPLS "handle-isis-neighbor-down" is enabled. |                                             |
| <b>Condition:</b> 1. ISIS is used as IGP.<br>2. ISIS MD5 authentication enabled at global level.<br>3. MPLS "handle-isis-neighbor-down" is enabled.                                                                                                                     |                                             |
| <b>Workaround:</b> Disable "handle-isis-neighbor-down" inside MPLS.                                                                                                                                                                                                     |                                             |
| <b>Recovery:</b> Disable "handle-isis-neighbor-down" inside MPLS.                                                                                                                                                                                                       |                                             |

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| <b>Defect ID:</b> DEFECT000624852                                                                                                          |                                              |
| <b>Technical Severity:</b> Medium                                                                                                          | <b>Probability:</b> Medium                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                         | <b>Technology Group:</b> Layer 2 Switching   |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                     | <b>Technology:</b> MRP - Metro Ring Protocol |
| <b>Symptom:</b> High LP CPU on MRP ring ports due to multicast traffic hitting through secondary path.                                     |                                              |
| <b>Condition:</b> If the MRP ring ports are trunk ports and multicast traffic is received through secondary path due to primary path down. |                                              |
| <b>Workaround:</b> Configure the MRP ring ports as non-trunk interfaces.                                                                   |                                              |
| <b>Recovery:</b> Clear the pim mcache on upstream PIM router in MRP ring which is wrongly forwarding traffic.                              |                                              |

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| <b>Defect ID:</b> DEFECT000625240                                                                                                                                                                                                                                                                                                                            |                                           |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                              | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                           | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                       | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Management Module may unexpectedly reload (and switch over to the standby Management Module if available). The following stack trace will be seen: -                                                                                                                                                                                         |                                           |
| <p>Possible Stack Trace (function call return address list)</p> <pre> 211ea688: pim_process_candidate_rp_adv_msg(pc) 211ea500: pim_process_candidate_rp_adv_msg(lr) 211bb44c: receive_pimv2_packet 211ba630: receive_pimv2_packet_callback 20b8fe8c: itc_process_msgs_internal 20b90338: itc_process_msgs 21170a60: mcast_task 00005e18: sys_end_task </pre> |                                           |
| <b>Condition:</b> Device should be configured as BSR Candidate.<br>RP Candidate change notification is repeatedly triggered on the network and this device receives the updates.                                                                                                                                                                             |                                           |

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| <b>Defect ID:</b> DEFECT000627663                                                                                                  |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                  | <b>Probability:</b> Low                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                 | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.8.00                                                                                             | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Below additional message may be observed on execution of 'wr mem' command :-                                       |                                                 |
| <pre>'free_config_buffer: bad buffer address '</pre>                                                                               |                                                 |
| <b>Condition:</b> (1) 'write mem' is issued on a telnet session.<br>(2) kill the above telnet session from another telnet session. |                                                 |

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| <b>Defect ID:</b> DEFECT000628203                                                               |                                                |
| <b>Technical Severity:</b> High                                                                 | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                              | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 06.0.00                                                          | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> BGP sessions are incorrectly allowed or denied.                                 |                                                |
| <b>Condition:</b> VLAN rules configured at the end of ACL access-list and applied on interface. |                                                |
| <b>Workaround:</b> Configure additional rules after the VLAN rules in ACL access-list.          |                                                |

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| <b>Defect ID:</b> DEFECT000628768                                                                                                                                                                                                                                                                                                   |                                                               |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                   | <b>Probability:</b> Medium                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                  | <b>Technology Group:</b> Layer 3 Routing/Network Layer        |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                              | <b>Technology:</b> DHCP - Dynamic Host Configuration Protocol |
| <b>Symptom:</b> "show dai" CLI output showing DHCP snooping entries with null port information for interfaces where DHCP snooping is disabled.                                                                                                                                                                                      |                                                               |
| <b>Condition:</b> (1) configure a VE interface through which DHCP clients are configured and DHCP snooping is enabled.<br>(2) configure a second VE interface on which DHCP clients are connected through a DHCP relay agent, but DHCP snooping is not enabled.<br>(3) configure another VE interface on which DHCP server resides. |                                                               |

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| <b>Defect ID:</b> DEFECT000628924                                                                                                                                                                                 |                                            |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                 | <b>Probability:</b> Medium                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                            | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> "show arp ethernet <slot/port>" output incorrectly shows some ARPs from the VPLS domain as learnt on "<slot/port>".                                                                               |                                            |
| <b>Condition:</b> If VEoVPLS interfaces are configured, ARPs learnt on VEoVPLS interfaces could be incorrectly shown as learnt on a physical <slot/port> when the command "show arp Ethernet <slot/port>" is run. |                                            |

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| <b>Defect ID:</b> DEFECT000629416                                       |                                                                        |
| <b>Technical Severity:</b> Medium                                       | <b>Probability:</b> High                                               |
| <b>Product:</b> Brocade NetIron OS                                      | <b>Technology Group:</b> Security                                      |
| <b>Reported In Release:</b> NI 05.4.00                                  | <b>Technology:</b> AAA - Authentication, Authorization, and Accounting |
| <b>Symptom:</b> Incorrect timezone in AAA accounting of TACACS+ Server. |                                                                        |
| <b>Condition:</b> TACACS+ server is configured for AAA accounting.      |                                                                        |

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| <b>Defect ID:</b> DEFECT000629472                                                                                                                                                |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                | <b>Probability:</b> Low                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                           | <b>Technology:</b> Static Routing (IPv4)               |
| <b>Symptom:</b> Intermittent packet loss for the directly connected host.                                                                                                        |                                                        |
| <b>Condition:</b> 1. VRRP/VRRP-E should be enabled.<br>2. Host is directly connected to VRRP/VRRP-E device.<br>3. Static route to be configured for the directly connected host. |                                                        |

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| <b>Defect ID:</b> DEFECT000632296                                                                                                                                                                                              |                                                         |
| <b>Technical Severity:</b> High                                                                                                                                                                                                | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                             | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                         | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> Following are observed on the router after Management Module switchover.<br>1. Links disappear from MPLS TED database.<br>2. OSPF TE Link type LSAs get flushed from OSPF database, and are not re-originated. |                                                         |
| <b>Condition:</b> The issue is seen when the following criteria are met:<br>1. NSR is enabled.<br>2. OSPF traffic engineering is enabled in MPLS.<br>3. Switchover is performed.                                               |                                                         |
| <b>Recovery:</b> The router may be recovered by issuing "clear ip ospf all".                                                                                                                                                   |                                                         |

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| <b>Defect ID:</b> DEFECT000635094                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                               |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Probability:</b> Medium                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Technology Group:</b> IP Multicast                         |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Technology:</b> PIM6 - IPv6 Protocol-Independent Multicast |
| <b>Symptom:</b> CES/CER may unexpectedly reload with the following stack trace :-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                               |
| <p>Possible Stack Trace (function call return address list)</p> <pre> 00000000: .zero(pc) 2025c888: m_avll_insert_or_find(lr) 205fd7a0: time_tree_insert_new_node_with_loc_index_no_delete 205fdf08: trace_util_add_entry_avl 205b3224: IPTRACE_AVL 205b30b8: IPTRACE_AVL_USING_RT_ENTRY 204dd9b4: lp_cam_del_ip_all_cam_by_type 204fb9b4: lp_cam_del_ip_all_cam 20678cf0: fpip_delete_entry_from_cam 20674a54: fpip_free_cache 20674cec: fpip_delete_route 205a9664: ip_delete_interface_addresses_from_cache 205aeb64: ip_process_port_state_change 205b5c38: fpip_ipc_port_data 203b92b0: ipc_multi_module_handler 200b1c24: lp_assist_ipc_request_send 203bbabc: ipc_process_messages 203bc2c8: ipc_receive_packet 203b68e8: ge_process_ipc_data_msg 203b6cac: ge_process_ipc_msg 200bc284: metro_sys_loop 200b18e4: main 00040158: sys_end_task </pre> |                                                               |
| <b>Condition:</b> Clearing the PIMv6 cache and MLD cache with more than 6k MLD groups and 8k mcache entries.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                               |

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| <b>Defect ID:</b> DEFECT000623082                                                                                                                                |                                           |
| <b>Technical Severity:</b> High                                                                                                                                  | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                               | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                           | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Multicast groups stop forwarding traffic when upgraded to NI 05.7.00 or above                                                                    |                                           |
| <b>Condition:</b> Happens when ingress multicast port and output port (OIF) are under 2 different untagged VLANs. Only ports with no VE configured are impacted. |                                           |
| <b>Workaround:</b> Configure all multicast-enabled ports as part of the default VLAN or configure all multicast-enabled ports under a common untagged VLAN.      |                                           |

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| <b>Defect ID:</b> DEFECT000623120                                                 |                                                        |
| <b>Technical Severity:</b> High                                                   | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.6.00                                            | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Management module reloads when "clear ip pim mcache" is executed. |                                                        |
| <b>Condition:</b> when "clear ip pim mcache" is executed.                         |                                                        |

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| <b>Defect ID:</b> DEFECT000635645                                                                                                                                                                                         |                                                |
| <b>Technical Severity:</b> High                                                                                                                                                                                           | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                        | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                    | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Ports behave unexpectedly. For example, IPv4 ACL configured on the port does not get applied to its traffic, VPLS local switched traffic egresses out of the port with a MPLS header, etc.                |                                                |
| <b>Condition:</b> Same IPv4 ACL is bound on more than one port on the same Packet Processor (PPCR).                                                                                                                       |                                                |
| <b>Workaround:</b> Since binding one ACL on more than one port per packet processor (PPCR) triggers the issue, create one unique ACL for each port instead (even with the same rules) and apply them to individual ports. |                                                |



## Closed with code changes R06.0.00b

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 12/21/2016 in NI 6.0.00b.

**NOTE:** Revised December 21, 2016 with defects not listed in the version 1 of these release notes.

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| <b>Defect ID:</b> DEFECT000546299                                                                           |                                                 |
| <b>Technical Severity:</b> High                                                                             | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                          | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.7.00                                                                      | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> Several LACP LAG ports flapped when a BR-MLX-100Gx2-CFP2 module was inserted and booted up. |                                                 |
| <b>Condition:</b> Insertion/power cycle of BR-MLX-100Gx2-CFP2 LP module in a system                         |                                                 |
| <b>Workaround:</b> Configure long timeout for LACP                                                          |                                                 |

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| <b>Defect ID:</b> DEFECT000586053                                                                                                                                                                                                                                                                                                 |                                                |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                   | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                            | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> ACL Rules fail to sync from management module to some of the line cards within a scaled configuration of MAC/IPv4/IPv6 ACLs.                                                                                                                                                                                      |                                                |
| <b>Condition:</b> With a scaled number of MAC/IPv4/IPv6 ACLs, management module takes significant amount of time to complete synchronization of the configuration to all the Linecards. In rare conditions, the synchronization of configurations can fail, resulting in the ACL configuration not being present in the Linecard. |                                                |

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| <b>Defect ID:</b> DEFECT000590226                                                                                                                                                                                                                                                                                                         |                                              |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                           | <b>Probability:</b> High                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                        | <b>Technology Group:</b> Traffic Management  |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                                                                                                    | <b>Technology:</b> Rate Limiting and Shaping |
| <b>Symptom:</b> All packets ingressing on one tower on an LP are dropped. "show np statistics" shows the "NP Rx Priority 0/1 Drop" counter incrementing.                                                                                                                                                                                  |                                              |
| <b>Condition:</b> Seen on 20x10G, 2x100G-CFP2 and 4x40G modules, when ACL rate limiting has been configured and ACL rebinding is happening frequently.<br>The issue was seen after 15 days when ACL rebinding was happening every 2 hours. If rebinding happens more frequently, the issue is likely to happen within a shorter duration. |                                              |

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| <b>Defect ID:</b> DEFECT000590434                                                                                                                                                     |                                     |
| <b>Technical Severity:</b> High                                                                                                                                                       | <b>Probability:</b> Low             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                    | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                | <b>Technology:</b> sFlow            |
| <b>Symptom:</b> Management Module may reload unexpectedly when an sFlow sample is being processed.                                                                                    |                                     |
| <b>Condition:</b> "sflow forwarding" should be enabled on the interface and "vrf forwarding <vrf-name>" should be enabled on the corresponding VE in which the interface is a member. |                                     |

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| <b>Defect ID:</b> DEFECT000592732                                                                                                                                                                                                                                                                              |                                             |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                | <b>Probability:</b> Medium                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                         | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> When a second IP address is configured for an interface, it is possible RSVP chooses the second IP address while sending back a RESV. When upstream router processes the RESV message, it drops the message because it does not match the RRO it was expecting. Thus the LSP will not come up. |                                             |
| <b>Condition:</b> This is a rare occurrence.                                                                                                                                                                                                                                                                   |                                             |
| <b>Workaround:</b> Unconfiguring the second interface IP address will bring up the LSP.                                                                                                                                                                                                                        |                                             |

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| <b>Defect ID:</b> DEFECT000595261                                                                                                                            |                                                         |
| <b>Technical Severity:</b> Medium                                                                                                                            | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                           | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                       | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Multicast source lookup fails due to unavailability of unicast routes in the system.                                                         |                                                         |
| <b>Condition:</b> This issue introduced when unicast traffic does not have the routes in routing table that are required for multicast source and RP lookup. |                                                         |
| <b>Workaround:</b> Make sure unicast routing table is populated before running multicast traffic.                                                            |                                                         |

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| <b>Defect ID:</b> DEFECT000596106                                                                                                                                                                                                                        |                                                         |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                          | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                       | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                   | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> When MPLS is running with OSPF as IGP, changing OSPF network type causes Dynamic Bypass LSPs to get created. These get deleted after a few seconds since they don't get used by Backup paths. This process of creation/deletion repeats. |                                                         |
| <b>Condition:</b> 1) MPLS is running with OSPF as IGP<br>2) Dynamic bypass is configured<br>3) OSPF network type is changed from broadcast to p2p without bringing down the interface state                                                              |                                                         |

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| <b>Defect ID:</b> DEFECT000599092                                                                                                                                     |                                               |
| <b>Technical Severity:</b> Low                                                                                                                                        | <b>Probability:</b> Medium                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                    | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> New half-height line card module comes up on a slot blocked for a full height card 2x100G                                                             |                                               |
| <b>Condition:</b> 2x100G line card is configured manually.<br>New half-height line card module when inserted on the slot which is blocked for full height card 2x100G |                                               |

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| <b>Defect ID:</b> DEFECT000599156                                                                                 |                                                                        |
| <b>Technical Severity:</b> Medium                                                                                 | <b>Probability:</b> Medium                                             |
| <b>Product:</b> Brocade NetIron OS                                                                                | <b>Technology Group:</b> Security                                      |
| <b>Reported In Release:</b> NI 05.7.00                                                                            | <b>Technology:</b> AAA - Authentication, Authorization, and Accounting |
| <b>Symptom:</b> The CLI prompt is displayed when providing the wrong credential during the telnet authentication. |                                                                        |
| <b>Condition:</b> During the telnet authentication, continuous "?"\n" is entered on the login prompt.             |                                                                        |

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| <b>Defect ID:</b> DEFECT000600814                                                                                                                       |                                                          |
| <b>Technical Severity:</b> Medium                                                                                                                       | <b>Probability:</b> Medium                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                      | <b>Technology Group:</b> Monitoring                      |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                  | <b>Technology:</b> OAM - Operations, Admin & Maintenance |
| <b>Symptom:</b> In the output of "show media", the dual rate 10G/1G optic transceiver module type is shown as unknown                                   |                                                          |
| <b>Condition:</b> The speed has to be configured as 1000-full and linecard module has to be reloaded. This issue is specific to 20x10G linecard module. |                                                          |
| <b>Recovery:</b> Remove the speed configuration - 1000-full.                                                                                            |                                                          |

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| <b>Defect ID:</b> DEFECT000601596                                                                                                                                                                                                           |                                                    |
| <b>Technical Severity:</b> Low                                                                                                                                                                                                              | <b>Probability:</b> Low                            |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                          | <b>Technology Group:</b> Management                |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                      | <b>Technology:</b> Software Installation & Upgrade |
| <b>Symptom:</b> When issuing the format command for CF slot1 or slot2, via SSH, the system might not format the CF module at all.                                                                                                           |                                                    |
| <b>Condition:</b> Conditions were unclear, the probable scenario is this, " if the PCMCIA card is being used for any copy operation from a different session (telnet/SCP), the device is in use. Hence the 'format' command does not work." |                                                    |
| <b>Workaround:</b> Do not format the card when it is in use (might be from a different session).                                                                                                                                            |                                                    |
| <b>Recovery:</b> Close all the open sessions, this would terminate the unknown copy operations happening on the card, or reload the chassis and then format the PCMCIA card.                                                                |                                                    |

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| <b>Defect ID:</b> DEFECT000601641                                                                                                      |                                      |
| <b>Technical Severity:</b> Medium                                                                                                      | <b>Probability:</b> Medium           |
| <b>Product:</b> Brocade NetIron OS                                                                                                     | <b>Technology Group:</b> Management  |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                 | <b>Technology:</b> High Availability |
| <b>Symptom:</b> Intermittent issues in management connectivity                                                                         |                                      |
| <b>Condition:</b> If there are ARP requests being sent to target IP address 0.0.0.0, the Standby management module may respond to them |                                      |

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| <b>Defect ID:</b> DEFECT000601776                                                                                               |                                                              |
| <b>Technical Severity:</b> Low                                                                                                  | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                              | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.8.00                                                                                          | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> SNMP OID 1991.1.1.2.1.44.0 displays value as "Reason: Unspecified" instead of "Reason : Fabric connectivity up" |                                                              |
| <b>Condition:</b> When fabric connectivity transitions from down to up                                                          |                                                              |

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| <b>Defect ID:</b> DEFECT000602382                                                                                                                                                                                                               |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                               | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                              | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                          | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> Unable to "deploy" or "no deploy" a LAG. The following timeout message is seen -<br><br>Error: Timed Out<br><br>LAG ABCD deployment failed!                                                                                     |                                                 |
| <b>Condition:</b> When the following are all true -<br>- System has undergone port flaps, LAG member updates, and other timer events such that the timer identifier value has gone past value 4294967295.<br>- "delay-link-timer" is configured |                                                 |

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| <b>Defect ID:</b> DEFECT000602394                                                                                                                                                                                                                                                                                                                                   |                                                             |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                                                                                 | <b>Probability:</b> Medium                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                  | <b>Technology Group:</b> Layer 3 Routing/Network Layer      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                              | <b>Technology:</b> ICMP - Internet Control Message Protocol |
| <b>Symptom:</b> Brocade's NetIron OS is susceptible to CVE-2016-1409 (IPv6 Neighbor Discovery Crafted Packet Denial of Service Vulnerability).<br><br>A vulnerability in the IP Version 6 (IPv6) packet processing functions could allow an unauthenticated, remote attacker to cause an affected device to experience elevated CPU usage on the management module. |                                                             |
| <b>Condition:</b> Reception of IPv6 ND6 packets with Hop Limit set as 255.                                                                                                                                                                                                                                                                                          |                                                             |
| <b>Workaround:</b> On GEN3 module, apply User Defined ACL (UDA) to filter out invalid ND6 packets in the hardware with software release 5.9 or later.                                                                                                                                                                                                               |                                                             |

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| <b>Defect ID:</b> DEFECT000603131                                                                                                                             |                                                     |
| <b>Technical Severity:</b> Medium                                                                                                                             | <b>Probability:</b> Medium                          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                            | <b>Technology Group:</b> Management                 |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                        | <b>Technology:</b> FDP - Foundry Discovery Protocol |
| <b>Symptom:</b> Even after FDP is disabled locally on the primary port of a LAG, the secondary ports of the LAG are listed as FDP neighbors on other devices. |                                                     |
| <b>Condition:</b> After disabling FDP on the Primary port of a LAG the Active Management Module must be reloaded                                              |                                                     |
| <b>Recovery:</b> Enable and disable FDP on the primary port of the LAG                                                                                        |                                                     |

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| <b>Defect ID:</b> DEFECT000603611                                                                                                                                                                                                                                                                              |                                                         |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                                                                                                                                                                                         | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> A /32 stale T3-LSA will remain in the area-0 DB even though all the contributing routes are removed from the other area.                                                                                                                                                                       |                                                         |
| <b>Condition:</b> (1) Configure the 3 IP addresses in some order on interfaces of 3 different routers in some area (e.g., 2000) with the subnets labeled in a manner similar to this: x.y.z.221/32, x.y.z.221/31, x.y.z.222/30.<br>(2) Delete the above configured interfaces in some order to hit this issue. |                                                         |

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| <b>Defect ID:</b> DEFECT000603644                                                     |                                             |
| <b>Technical Severity:</b> Medium                                                     | <b>Probability:</b> High                    |
| <b>Product:</b> Brocade NetIron OS                                                    | <b>Technology Group:</b> Traffic Management |
| <b>Reported In Release:</b> NI 05.8.00                                                | <b>Technology:</b> QoS - Quality of Service |
| <b>Symptom:</b> QoS statistics on egress ports always shows against Queue 0           |                                             |
| <b>Condition:</b> CLI Command "extended-qos-mode" should be configured on the device. |                                             |

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| <b>Defect ID:</b> DEFECT000603982                                                                                                                                                                                                                                                                                                                                                                                                              |                              |
| <b>Technical Severity:</b> Low                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Probability:</b> High     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> When a passive Openflow connection is configured, ip-address can be optionally specified. This ip-address is intended to specify which local (in switch) ip-address to listen to. The issue is that even if ip-address is specified, it still accepts connection on any local ip-address. So, any controller can still connect to the switch on non-specified IP address, as the passive connection listens to any ip-address. |                              |
| <b>Condition:</b> When local ip-address is specified in passive OpenFlow connection, it is supposed to only listen to that ip-address. Instead, it simply ignores the local IP address configuration and accepts Openflow connections on any local IP address.                                                                                                                                                                                 |                              |

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| <b>Defect ID:</b> DEFECT000604087                                                                                                                                                                                                                                                 |                                                           |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                   | <b>Probability:</b> High                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                | <b>Technology Group:</b> Layer 3 Routing/Network Layer    |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                            | <b>Technology:</b> OSPFv3 - IPv6 Open Shortest Path First |
| <b>Symptom:</b> The OSPFv3 ABR did not install a more specific route learned from another area when the more specific route that it learns falls within the same area range configured on this router.                                                                            |                                                           |
| <b>Condition:</b> (1) area range on an OSPFv3 ABR is configured and it originates T3-LSA into backbone for area-range summary and installs this route into RTM.<br>(2) Another ABR originates a more specific route that falls within the configured area-range on the first ABR. |                                                           |

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| <b>Defect ID:</b> DEFECT000604330                                                                                                                                   |                                                              |
| <b>Technical Severity:</b> Medium                                                                                                                                   | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                  | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                              | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> SNMP OID "snSwIfInfoGigType" returns the value as unknown(255)                                                                                      |                                                              |
| <b>Condition:</b> When polling OID "snSwIfInfoGigType", for Finisar 10G SR SFP+ optic configured with "speed-duplex 1000-full" it returns the value as unknown(255) |                                                              |

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| <b>Defect ID:</b> DEFECT000605338                                                                                                                                     |                              |
| <b>Technical Severity:</b> Medium                                                                                                                                     | <b>Probability:</b> Medium   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                    | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> Port speed seen at controller was incorrect in the following scenario<br>1. Upon reload<br>2. Openflow is enabled when port admin state is 'Disabled' |                              |
| <b>Condition:</b> 1. Reload<br>2. Openflow enabled when port admin state is disabled                                                                                  |                              |
| <b>Workaround:</b> Remove and re-add openflow configuration                                                                                                           |                              |

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| <b>Defect ID:</b> DEFECT000605720                                                                                                                                                   |                                                 |
| <b>Technical Severity:</b> High                                                                                                                                                     | <b>Probability:</b> Low                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                  | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                              | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Software forwarded packets (like fragmented packets, TCP SYN packets in the presence of TCP MSS adjust configuration) go to the wrong port leading to traffic loss. |                                                 |
| <b>Condition:</b> In a MCT topology, after ARP/MAC movement happens from ICL to another physical port.                                                                              |                                                 |
| <b>Recovery:</b> "clear ip route" for the affected traffic.                                                                                                                         |                                                 |

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| <b>Defect ID:</b> DEFECT000605728                                                                                                                                                                              |                                                         |
| <b>Technical Severity:</b> High                                                                                                                                                                                | <b>Probability:</b> Low                                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                             | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                         | <b>Technology:</b> BGP4+ - IPv6 Border Gateway Protocol |
| <b>Symptom:</b> Available system memory depletes steadily and conditions may be seen such as the inability to establish new SSH sessions.                                                                      |                                                         |
| <b>Condition:</b> BGP has to be configured and it receives erroneous/badly constructed update messages from its peer.                                                                                          |                                                         |
| <b>Recovery:</b> If available memory continues to deplete and hits a very low level (<10%), switch over to standby Management module (when available) OR reloading the Management module can help temporarily. |                                                         |

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| <b>Defect ID:</b> DEFECT000607574                                                                                                                                                                          |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                          | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                         | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                     | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> MBRIDGE upgrade progress message as shown below might get delayed<br><br>Copy to MBRIDGE PROM.....Save the new MBRIDGE to flash.....Done<br>Copy MBRIDGE IMAGE to standby MP, please wait. |                                                 |
| <b>Condition:</b> During MBRIDGE upgrade copying from Compact Flash.                                                                                                                                       |                                                 |

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| <b>Defect ID:</b> DEFECT000607624                                                                                                |                                                        |
| <b>Technical Severity:</b> High                                                                                                  | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.7.00                                                                                           | <b>Technology:</b> ARP - Address Resolution Protocol   |
| <b>Symptom:</b> Traffic is not forwarded to directly connected host when traffic is received for the host from 2 different VRFs. |                                                        |
| <b>Condition:</b> Connected routes leaked from one VRF to another VRF                                                            |                                                        |

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| <b>Defect ID:</b> DEFECT000607934                                                                                                                         |                                                             |
| <b>Technical Severity:</b> High                                                                                                                           | <b>Probability:</b> Medium                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                        | <b>Technology Group:</b> MPLS                               |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                    | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> OSPF protocol stays down as BUM traffic are not forwarded when received from VPLS peer                                                    |                                                             |
| <b>Condition:</b> MCT VPLS cluster configured<br>traffic ingress through ICL/cluster-peer link from VPLS peer<br>with "no vpls-cpu-protection" configured |                                                             |
| <b>Workaround:</b> configure "vpls-cpu-protection" to forward all BUM traffic.                                                                            |                                                             |

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| <b>Defect ID:</b> DEFECT000608460                                                                                                                                                                                              |                                                         |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                              | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                             | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                         | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> (S,G) entry is not created in "show ip pim mcache" with RACL configured on CES/CER                                                                                                                             |                                                         |
| <b>Condition:</b> On CES/CER when RACL is configured with explicit IGMP permit ACL like below:<br><br>access-list X sequence Y permit igmp a.b.c.d 0.0.0.255 any<br><br>Note: This is specific to CES/CER only.                |                                                         |
| <b>Workaround:</b> Explicitly permit all IP traffic from the source subnet to the multicast group address for the (S,G) to be created.<br><br>For example:<br>access-list x sequence y permit ip a.b.c.d 0.0.0.31 host e.f.g.h |                                                         |

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| <b>Defect ID:</b> DEFECT000608991                                                                                    |                                           |
| <b>Technical Severity:</b> High                                                                                      | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                                   | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.6.00                                                                               | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Some of the multicast streams stopped working.                                                       |                                           |
| <b>Condition:</b> Primary LAG port in OIF is down and traffic is reaching the node after the (*,G) entry is created. |                                           |
| <b>Workaround:</b> Bring primary LAG port up.                                                                        |                                           |
| <b>Recovery:</b> clear ip pim mcache where LP receives traffic but does not create (S,G) entry                       |                                           |

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| <b>Defect ID:</b> DEFECT000609090                                                                                                           |                                                  |
| <b>Technical Severity:</b> Medium                                                                                                           | <b>Probability:</b> High                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                          | <b>Technology Group:</b> Security                |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                      | <b>Technology:</b> MAC Port-based Authentication |
| <b>Symptom:</b> Static secured MAC addresses are flushed on a PMS enabled port while disabling the same port.                               |                                                  |
| <b>Condition:</b> PMS configuration should be enabled on port.<br>Static MAC address should be configured.<br>Disable the PMS enabled port. |                                                  |

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| <b>Defect ID:</b> DEFECT000609387                                                                                                                |                                                        |
| <b>Technical Severity:</b> High                                                                                                                  | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                           | <b>Technology:</b> ARP - Address Resolution Protocol   |
| <b>Symptom:</b> Unable to add static ARP entries with an error message, "ARP: Errno(6) Number of Static ARP entries has exceeded the max limit". |                                                        |
| <b>Condition:</b> The router acts as a DHCP relay agent and it receives DHCP packets with options.<br>DAI table is full                          |                                                        |

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| <b>Defect ID:</b> DEFECT000609876                                                                                                                                                                                                                                               |                                                             |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                               | <b>Probability:</b> High                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                              | <b>Technology Group:</b> Layer 3 Routing/Network Layer      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                          | <b>Technology:</b> BFD - BiDirectional Forwarding Detection |
| <p><b>Symptom:</b> When BFD is used over VE interface across a layer 2 port, PCP value is incorrect. This value should be 7, but it is marked with 0.</p> <p>This issue will occur if PBIF (Hardware TX assist) is enabled and could be seen after BFD session state is UP.</p> |                                                             |
| <b>Condition:</b> PCP value will be 0 in the BFD packet after the BFD session state is UP.                                                                                                                                                                                      |                                                             |

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| <b>Defect ID:</b> DEFECT000610054                                                                                                                                                                                                                                     |                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                       | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                    | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> Some traffic over IPSEC tunnel may be dropped                                                                                                                                                                                                         |                                        |
| <p><b>Condition:</b> When the router needs to further fragment already fragmented IP packets to send over IPSEC tunnel. The fragmentation ID and offset in the new IP fragments are not set correctly, rendering the end device unable to reassemble the packets.</p> |                                        |
| <p><b>Workaround:</b> Configure the IP MTU of the upstream device to match the IP MTU of the IPSEC tunnel, or use Path MTU Discovery to ensure that fragmented packets coming into the router are not further fragmented.</p>                                         |                                        |

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| <b>Defect ID:</b> DEFECT000610277                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Probability:</b> Medium        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology Group:</b> Security |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Technology:</b> HTTP/HTTPS     |
| <p><b>Symptom:</b> Management Module may unexpectedly reload (and switches over to the standby Management Module if available). The following stack trace will be seen: -</p> <p>Possible Stack Trace (function call return address list)</p> <pre> 2243d048: memcpy(pc) 209ae9e4: A1RecordCrypt(lr) 209adf34: A1RecordProcess 209a928c: A1ConnectionDispatch 209af994: SsiReceiveStatus 2097ab68: AsCheckTcpReceiveStatus 2097a598: HandleWaitingForReceive 20979c14: HandleConnectionTask 209799b4: AllegroMainTask 20990084: http_web_agent 20990b70: http_timer_callback 20b556f4: itc_process_msgs_internal 20b55ba0: itc_process_msgs 209911f4: web_task 00005e18: sys_end_task </pre> |                                   |
| <b>Condition:</b> Continuous data transfer through HTTPS connection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |



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| <b>Defect ID:</b> DEFECT000610776                                                                                                      |                                             |
| <b>Technical Severity:</b> Medium                                                                                                      | <b>Probability:</b> High                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                     | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                 | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> In a network with MPLS RSVP LSP with FRR configured, detour won't come up at PLR                                       |                                             |
| <b>Condition:</b> Merge point router's outgoing interface has admin group configured which is excluded in FRR configurations under LSP |                                             |

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| <b>Defect ID:</b> DEFECT000611054                                                                                                                                                                                                                                                           |                                     |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                             | <b>Probability:</b> Low             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                          | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                                                                                                                                                                      | <b>Technology:</b> Syslog           |
| <b>Symptom:</b> On occasion, optic on 24x1G Linecard module type may cause i2c bus lockup on the Linecard resulting in very frequent error messages similar to the SYSLOG entries seen below:<br><br>E:System: Can't read LP6 PCB temperature!<br>E:System: Can't read LP6 XPP temperature! |                                     |
| <b>Condition:</b> Usage of third party optic or any bad optic on 24x1G Linecard module.                                                                                                                                                                                                     |                                     |
| <b>Recovery:</b> "show media" command could help recover from the condition for a short interval. The recovery could last for days, depending on the load on i2c bus.                                                                                                                       |                                     |

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| <b>Defect ID:</b> DEFECT000611080                                                                  |                                        |
| <b>Technical Severity:</b> High                                                                    | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                 | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 06.0.00                                                             | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Port with QSFP28 optic module is not coming up after a series of plug-out/plug-in. |                                        |
| <b>Condition:</b> Applicable to QSFP28 optic module in CFP2 to QSFP28 port.                        |                                        |

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| <b>Defect ID:</b> DEFECT000611357                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |
| <b>Technical Severity:</b> Low                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> Medium      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology Group:</b> MPLS   |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Technology:</b> IP over MPLS |
| <b>Symptom:</b> In a scaled network with several parallel TE links between pairs of RSVP routers and a large number of TE nodes and links, some LSPs might not come up due to a "loop detected" error. Warning message "Warning: Infinite Loop in mpls_cspf.c:3769: mpls_constrained_dijkstra 4" will be seen on the router. LSP's CSPF computation will fail and some LSPs may stay in down state due to "loop detected" CSPF error. Up LSPs will not be impacted; only the newly coming up LSPs might stay in a down state. |                                 |
| <b>Condition:</b> This issue will be seen only in a large MPLS/RSVP network with tens of TE nodes and hundreds of links + parallel links between pairs of TE nodes.                                                                                                                                                                                                                                                                                                                                                           |                                 |
| <b>Workaround:</b> There is no "non-intrusive" workaround. Removing parallel links from the topology will help.                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| <b>Recovery:</b> No easy recovery other than reducing the number of parallel links.                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |

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| <b>Defect ID:</b> DEFECT000612208                                                                                                                                                                                                                                                                                                                                               |                                     |
| <b>Technical Severity:</b> Low                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b> Medium          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                              | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                          | <b>Technology:</b> sFlow            |
| <b>Symptom:</b> Error message related to sFlow configuration is displayed with incorrect Primary port number in the CLI when a new member port is added in an already deployed LAG.                                                                                                                                                                                             |                                     |
| <b>Condition:</b> This happens in the following cases: -<br>- When the Primary port in a deployed LAG is already configured with sFlow and the member port to be added newly in the LAG does not have sFlow configured.<br>- When the LAG ports in the deployed LAG do not have an sFlow configuration but the member ports to be added in the LAG have an sFlow configuration. |                                     |
| <b>Workaround:</b> Ensure that the configuration on the new port is the same as the configuration on the LAG.                                                                                                                                                                                                                                                                   |                                     |

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| <b>Defect ID:</b> DEFECT000612475                                                      |                                                              |
| <b>Technical Severity:</b> Medium                                                      | <b>Probability:</b> High                                     |
| <b>Product:</b> Brocade NetIron OS                                                     | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 06.1.00                                                 | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> SNMP polling for QSFP28 optics data returns Unsupported data.          |                                                              |
| <b>Condition:</b> SNMP Polling for QSFP28 optics data on 2x100G-CFP2 line card module. |                                                              |

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| <b>Defect ID:</b> DEFECT000612750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                |
| <b>Technical Severity:</b> Low                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Probability:</b> Low                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Error message (error - H4) is getting displayed during reload.<br><br>Sample output is given below: -<br><br>Router#reload<br>Checking for coherence...<br>Done.<br>Are you sure? (enter 'y' or 'n'): y<br>Halt and reboot<br><br>NetIron XMR/MLX Boot Code Version 5.9.0<br><br>///// OUTPUT TRUNCATED /////<br><br>system memory: 4294967295, available 3506524160<br>FID manager initialized ...<br>Start init runconfig from start config<br>Load config data from flash memory...<br>error - H4 |                                                |
| <b>Condition:</b> No ACL is bound to any interface on the device, "force-delete-bound-acl" is enabled and the device is reloaded.<br><br>Note: This issue is applicable across all releases. The error message displayed is an indication of the condition of no ACLs bound to any interface and does not have any impact on the system.                                                                                                                                                                             |                                                |
| <b>Workaround:</b> Avoid using "force-delete-bound-acl" command option when no ACL is bound to any interface on the device                                                                                                                                                                                                                                                                                                                                                                                           |                                                |

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| <b>Defect ID:</b> DEFECT000613063                                                                                        |                                    |
| <b>Technical Severity:</b> Medium                                                                                        | <b>Probability:</b> Medium         |
| <b>Product:</b> Brocade NetIron OS                                                                                       | <b>Technology Group:</b> Security  |
| <b>Reported In Release:</b> NI 05.6.00                                                                                   | <b>Technology:</b> IP Source Guard |
| <b>Symptom:</b> RPF loose mode doesn't work. Packets are routed instead of dropping when there is no valid source route. |                                    |
| <b>Condition:</b> "sflow null0-sampling" is configured with RPF loose mode.                                              |                                    |

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| <b>Defect ID:</b> DEFECT000613729                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> 100Gx2-CFP2 line card may reload unexpectedly with the following stack trace:-<br><br><pre> 20bb3178: mod_rw2x100_g3_cfp2_reset_steps(pc) 20bb3170: mod_rw2x100_g3_cfp2_reset_steps(lr) 2002d8cc: cfp_reset 209b4fe0: phy_conn_enable 20a2fb2c: port_check_port_status 20a339a8: port_link_status_poll 20a334ac: port_status_poll 200058c0: perform_callback 200062c8: timer_timeout 00040160: sys_end_entry 0005e4a0: suspend 0005cf78: dev_sleep 00005024: xsyscall 207f2ec8: main 00040158: sys_end_task </pre> |                                        |
| <b>Condition:</b> Continuous Optic Insertion and Removal is done for 100G LR4 CFP2 optics multiple times                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |

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| <b>Defect ID:</b> DEFECT000613850                                                                                                                                                                             |                                                 |
| <b>Technical Severity:</b> High                                                                                                                                                                               | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                            | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                        | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> The VRRP-E command "short-path-forwarding-delay <delayinseconds>" is not taking effect in IPv4 VRRP-E network ("router vrrp-extended").                                                       |                                                 |
| <b>Condition:</b> The issue will be noticed if "short-path-forwarding" command is used to configure the backup VRRP-E device as an alternate path in IPv4 VRRP-E network.                                     |                                                 |
| <b>Workaround:</b> Disable "short-path-forwarding" and configure the "garp-ra-interval" to 2 seconds (using command - "garp-ra-interval <timeInSeconds>") on the VRRP-E instances in the IPv4 VRRP-E network. |                                                 |

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| <b>Defect ID:</b> DEFECT000614029                                                                                                                                                                          |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                            | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                         | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                     | <b>Technology:</b> IPv6 Addressing                     |
| <b>Symptom:</b> Appropriate error message is not printed on console when user configures IPv6 tunnel interface as MPLS interface.                                                                          |                                                        |
| <b>Condition:</b> Configuring IPv6 tunnel interface as MPLS interface is not supported. Appropriate error message was not printed on console when user configured IPv6 tunnel interface as MPLS interface. |                                                        |

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| <b>Defect ID:</b> DEFECT000614112                                                                                                                                                                                                                                                                                                                 |                                                         |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                 | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                                                                                                            | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> OSPFv2 Type-3 summary LSA originated for area-range configuration is not flushed (withdrawn) even if all the component routes that fall within the area-range are removed.                                                                                                                                                        |                                                         |
| <b>Condition:</b> (1) area-range command on ABR is configured<br>(2) component routes that fall within the range are in RTM (e.g., configure some IP interfaces with addresses that fall within the range)<br>(3) disabling all the component routes (i.e., disable the configured interfaces with IP addresses that fall within the area-range). |                                                         |
| <b>Workaround:</b> If the ABR status is made to loose then it would flush (withdraw) the area-range summary.                                                                                                                                                                                                                                      |                                                         |

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| <b>Defect ID:</b> DEFECT000614508                                                                                                 |                                                         |
| <b>Technical Severity:</b> Low                                                                                                    | <b>Probability:</b> Low                                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.7.00                                                                                            | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> "show ip ospf data link-state extensive" does not display extensive output of all LSAs.                           |                                                         |
| <b>Condition:</b> At least 8 Loopback interfaces advertised to the peer.<br>Multiple entries of router LSAs in the OSPF database. |                                                         |

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| <b>Defect ID:</b> DEFECT000615179                                                                                               |                                                              |
| <b>Technical Severity:</b> High                                                                                                 | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                              | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.8.00                                                                                          | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> SNMP community configuration have duplicate entry in "show running"                                             |                                                              |
| <b>Condition:</b> When SNMP community is configured with ACL name like below:<br><br>snmp-server community public ro <acl-name> |                                                              |

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| <b>Defect ID:</b> DEFECT000615868                                                                                                  |                                            |
| <b>Technical Severity:</b> High                                                                                                    | <b>Probability:</b> High                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                 | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.8.00                                                                                             | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> Traffic rate limited to 20Gbps for all VLANs where outbound the rate-limit is not applied.                         |                                            |
| <b>Condition:</b> 1) This is specific to MLX-10Gx24.<br>2) Outbound rate-limit is applied on one specific VLAN.                    |                                            |
| <b>Recovery:</b> Only recovery is to reload the corresponding line card module after applying the rate-limit to the configuration. |                                            |

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| <b>Defect ID:</b> DEFECT000615906                                                                                 |                                                              |
| <b>Technical Severity:</b> Medium                                                                                 | <b>Probability:</b> High                                     |
| <b>Product:</b> Brocade NetIron OS                                                                                | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.9.00                                                                            | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> SNMP polling for IPSEC tunnel interfaces doesn't provide correct values                           |                                                              |
| <b>Condition:</b> When polling for IPSEC tunnel interface statistics through SNMP table IfTable.                  |                                                              |
| <b>Workaround:</b> Execute the CLI command "show interface tunnel <tunnel-id>" before polling SNMP table IfTable. |                                                              |

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| <b>Defect ID:</b> DEFECT000615910                                                                        |                                     |
| <b>Technical Severity:</b> Medium                                                                        | <b>Probability:</b> High            |
| <b>Product:</b> Brocade NetIron OS                                                                       | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.9.00                                                                   | <b>Technology:</b> Telemetry        |
| <b>Symptom:</b> SNMP polling of ifTable statistics always displays the value as zero for MPLS LSP tunnel |                                     |
| <b>Condition:</b> When polling MPLS LSP statistics through SNMP table ifTable.                           |                                     |

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| <b>Defect ID:</b> DEFECT000616823                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Probability:</b> Low             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Technology:</b> Sysmon           |
| <b>Symptom:</b> CES/CER may unexpectedly reload with the following stack trace :-<br><br>Possible Stack Trace (function call return address list)<br>203056d0: hashFastGenericGet(pc)<br>209e748c: itc_registry_get_msg_def_for_msg_type(lr)<br>209e748c: itc_registry_get_msg_def_for_msg_type<br>209dfbf0: validate_params_and_get_msg_def<br>209dfc98: itc_send_request<br>20a0e608: CancelTimerCommon<br>20a0e788: CancelTimer2<br>209b9dbc: ssh_close_connection<br>209b1a00: cu_ssh_close_session_internal<br>209b3a90: ssh_cu_msg_callback<br>209e0954: itc_process_msgs_internal<br>209e0df4: itc_process_msgs<br>207179f0: snms_task<br>00040158: sys_end_task |                                     |
| <b>Condition:</b> There is no known condition/trigger for this issue.<br><br>Note: This is specific to CES/CER only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |

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| <b>Defect ID:</b> DEFECT000617836                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> Linecards on an MLX unexpectedly reloading at random intervals. The stack trace seen using the "show save" command is as follows -<br>212c0860: ipcom_pqueue_get_next(pc)<br>212ca014: ipcom_tmo2_select(lr)<br>21204e70: ike_wr_timer<br>211e874c: ike_sys_timer<br>00040160: sys_end_entry<br>0005e4c8: suspend<br>00062230: receive_message<br>00005024: xsyscall<br>211e8c28: ike_task<br>00040158: sys_end_task |                                        |
| <b>Condition:</b> Can be seen on all MLX Line Cards running NetIron 5.8.00 through 5.8.00e, 5.9.00 through 5.9.00bd, 6.0.00 and 6.0.00a images.<br>Can be caused by IPSec control packets.                                                                                                                                                                                                                                           |                                        |

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| <b>Defect ID:</b> DEFECT000618044                                                                                                  |                                                        |
| <b>Technical Severity:</b> Critical                                                                                                | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                 | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 06.0.00                                                                                             | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> LP unexpectedly reloads with the following info seen in "show save" in function<br>is_routemap_in_use_by_uda_pbr() |                                                        |
| <b>Condition:</b> Can be seen<br>- during LP bootup, OR<br>- when an IP or UDA route-map is configured.                            |                                                        |

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| <b>Defect ID:</b> DEFECT000618076                                                                                                                                                                                                                                                                                                                                           |                                                    |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                           | <b>Probability:</b> Medium                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                          | <b>Technology Group:</b> Traffic Management        |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                      | <b>Technology:</b> Traffic Queueing and Scheduling |
| <b>Symptom:</b> Linecard module may unexpectedly reload with the following stack trace: -<br><br>Possible Stack Trace (function call return address list)<br>2064de14: rw2_petra_set_port_rate(pc)<br>2064ddf8: rw2_petra_set_port_rate(lr)<br>2119c424: fdry_tm_set_port_rate<br>20ff40c8: lp_tm_offload_handler<br>207f3a2c: lp_tm_offload_task<br>00040158: sys_end_task |                                                    |
| <b>Condition:</b> When the linecard module comes up and the remote ports connected to the local ports are flapping                                                                                                                                                                                                                                                          |                                                    |

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| <b>Defect ID:</b> DEFECT000618134                                                                                                                                                                                               |                                      |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                               | <b>Probability:</b> Medium           |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                              | <b>Technology Group:</b> Management  |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                          | <b>Technology:</b> High Availability |
| <b>Symptom:</b> Standby management module went down with the syslog 'reason None. Error Code 0' and no error log dump.<br>SYSLOG: <13>Sep 20 15:15:55 System: Standby Management Module was down, reason None.<br>Error Code 0. |                                      |
| <b>Condition:</b> On terminating the Telnet/SSH session immediately after issuing 'write mem' command.                                                                                                                          |                                      |
| <b>Workaround:</b> Wait for 2-3 sec before killing the telnet session after issuing 'write mem'.<br>Note: The issue will not affect traffic as it is a Standby module and comes back in a few minutes.                          |                                      |

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| <b>Defect ID:</b> DEFECT000618333                                                                                                                        |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                        | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                       | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                   | <b>Technology:</b> GRE - Generic Routing Encapsulation |
| <b>Symptom:</b> TCP packets are received in the server without removing the GRE header.                                                                  |                                                        |
| <b>Condition:</b> When trying to telnet to the Linux host from a server with a GRE tunnel between and with TCP MSS configured in the transit MLX device. |                                                        |
| <b>Workaround:</b> The configuration "ip tcp adjust-mss" has to be removed.                                                                              |                                                        |

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| <b>Defect ID:</b> DEFECT000618580                                                                   |                                       |
| <b>Technical Severity:</b> Medium                                                                   | <b>Probability:</b> Medium            |
| <b>Product:</b> Brocade NetIron OS                                                                  | <b>Technology Group:</b> Security     |
| <b>Reported In Release:</b> NI 06.0.00                                                              | <b>Technology:</b> SSH - Secure Shell |
| <b>Symptom:</b> Unable to upload SSH client-pub-key file due to size-limit.                         |                                       |
| <b>Condition:</b> When uploading the SSH client-pub-key file with the size of more than 4096 bytes. |                                       |

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| <b>Defect ID:</b> DEFECT000618928                                                                                                                                        |                                                |
| <b>Technical Severity:</b> Critical                                                                                                                                      | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                       | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                   | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Newly added LAG port is in LACP blocked state                                                                                                            |                                                |
| <b>Condition:</b> Apply a MAC ACL on a port and create LAG with this port.<br>Remove the ACL and add another ACL.<br>Now add a secondary port to the LAG from another LP |                                                |

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| <b>Defect ID:</b> DEFECT000619510                                                                                                              |                                            |
| <b>Technical Severity:</b> Medium                                                                                                              | <b>Probability:</b> Medium                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                             | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                         | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> RSTP configuration is not allowed under vlan-group and Error message is displayed as "spanning tree configuration is enabled". |                                            |
| <b>Condition:</b> 1) "Spanning tree" command is globally configured<br>2) configure "rstp" command under vlan-group having member vlans.       |                                            |
| <b>Workaround:</b> Remove the spanning tree configuration from each vlan under vlan-group and configure rstp.                                  |                                            |

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| <b>Defect ID:</b> DEFECT000619934                                                                                                                                                                                                                  |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                  | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                 | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                             | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Memory leak may be observed during execution of either of the following commands:<br>1) 'show rate-limit interface x/y output'<br>2) 'show sysmon events brief'.                                                                   |                                                 |
| <b>Condition:</b> 1) The command 'show rate-limit interface x/y output' may result in a memory leak when rate-limit is not configured<br>2) The command 'show sysmon events brief' may result in memory leak when sysmon events are not configured |                                                 |

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| <b>Defect ID:</b> DEFECT000620066                                            |                                                              |
| <b>Technical Severity:</b> High                                              | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                           | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 06.0.00                                       | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> "snmp-server group" configuration is lost after the reload.  |                                                              |
| <b>Condition:</b> "snmp-server group" name configured and reload the device. |                                                              |

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| <b>Defect ID:</b> DEFECT000620069                                                                                         |                                                          |
| <b>Technical Severity:</b> High                                                                                           | <b>Probability:</b> Medium                               |
| <b>Product:</b> Brocade NetIron OS                                                                                        | <b>Technology Group:</b> IP Multicast                    |
| <b>Reported In Release:</b> NI 05.9.00                                                                                    | <b>Technology:</b> IPv4 Multicast VLAN Traffic Reduction |
| <b>Symptom:</b> Multicast traffic loss can be observed for VPLS.                                                          |                                                          |
| <b>Condition:</b> disabling and re-enabling of lag active primary port of VPLS end-point with Line card as BR-MLX-10Gx20. |                                                          |

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| <b>Defect ID:</b> DEFECT000620729                                                                                                                        |                                           |
| <b>Technical Severity:</b> Medium                                                                                                                        | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                       | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                   | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> "pim-sparse" configuration getting lost on the GRE Interface after chassis Reload and could lead to a multicast data traffic loss issue. |                                           |
| <b>Condition:</b> "pim-sparse" configuration on GRE interface.                                                                                           |                                           |
| <b>Workaround:</b> Post reload of the device, configure pim-sp manually on gre-tunnel interface again.                                                   |                                           |

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| <b>Defect ID:</b> DEFECT000620803                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                         |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Probability:</b> Low                                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Technology:</b> BGP4+ - IPv6 Border Gateway Protocol |
| <b>Symptom:</b> Enable ISIS for IPv6 with multi-topology transition and then run 'show IPv6 route', shortly after this CER reloaded unexpectedly with the following stack trace:-<br><br><pre> 20e57ec4: bgp_best_route_selection_with_sorting(pc) 20e57dbc: bgp_best_route_selection_with_sorting(lr) 20e582c8: bgp_best_route_selection_and_change 20f05a68: bgp_check_and_update_bgp_route_in_ip_table_as_necessary 20e77790: bgp_route_damping_timer_event 20f221f8: bgp_timer 20f1d780: bgp_timeout_func 20a47fe8: itc_process_msgs_internal 20a48494: itc_process_msgs 20ec0768: bgp_task 00040158: sys_end_task </pre> |                                                         |
| <b>Condition:</b> CER reload is observed when BGP Best path flaps. BGP best path can flap in scenarios for example IBGP next-hop change, flapping BGP route etc..                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                         |



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| <b>Defect ID:</b> DEFECT000621666                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> Management Module may unexpectedly reload and switch over to the standby Management Module if available. The following stack trace will be seen: -<br>Possible Stack Trace (function call return address list)<br>20ef84a4: ospf_router_receive_packet_callback(pc)<br>20ef849c: ospf_router_receive_packet_callback(lr)<br>20a1c040: itc_process_msgs_internal<br>20a1c380: itc_process_msgs<br>20ef775c: ospf_msg_task<br>00005e18: sys_end_task |                                                         |
| <b>Condition:</b> After running for longer duration.<br>Low memory available in OSPF memory pool.                                                                                                                                                                                                                                                                                                                                                                  |                                                         |

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| <b>Defect ID:</b> DEFECT000622131                                                                                                                                                                         |                                                         |
| <b>Technical Severity:</b> High                                                                                                                                                                           | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                        | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                    | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> On a Customer-Edge router if external LSA's tag matches OSPF domain-tag then these external LSA's would not be installed in OSPF route table.                                             |                                                         |
| <b>Condition:</b> In VRF-lite case if a Customer-Edge router is running OSPF in a VRF, and if external LSA contains tag same as OSPF domain-tag then these external LSAs would be missing in route table. |                                                         |
| <b>Workaround:</b> On Customer-Edge router configure OSPF domain-id different than the one present in OSPF external LSA tag.                                                                              |                                                         |

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| <b>Defect ID:</b> DEFECT000622744                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> Low                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Line card module may unexpectedly reload and get into a continuous reload cycle with the following stack trace:-<br><br>Possible Stack Trace (function call return address list)<br>210ba9b8: sw_l4_find_acl_table(pc)<br>210306d0: sw_l4_construct_port_list_for_rule_based_acl(lr)<br>21030a6c: sw_l4_construct_acl_rule_mask_and_prog_cam<br>2103154c: sw_l4_update_acl_cam_entries<br>21039d30: l4_update_rule_based_entries_in_cam<br>2103199c: l4_ip_inbound_acl_update_timer_callback<br>200058c0: perform_callback<br>200062c8: timer_timeout<br>00040160: sys_end_entry<br>0005e4a0: suspend<br>0005cf78: dev_sleep<br>00005024: xsyscall<br>207f2f88: main<br>00040158: sys_end_task |                                                |
| <b>Condition:</b> 4K VEs associated one on one with 4K VLANs. (VE 2 to VE 4095)<br>One physical port part of all the 4K VLANs.<br>4K IPv4 ACL having 25 rules per ACL.<br>These 4K different ACLs are bound on the 4K VEs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |

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| <b>Defect ID:</b> DEFECT000622823                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> Low                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 06.1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Line card module may unexpectedly reload and get into a continuous reload cycle with the following stack trace:-<br><br>Possible Stack Trace (function call return address list)<br>210c2be4: sw_l4_find_acl_table(pc)<br>21038614: sw_l4_construct_port_list_for_rule_based_acl(lr)<br>210389b0: sw_l4_construct_acl_rule_mask_and_prog_cam<br>21039490: sw_l4_update_acl_cam_entries<br>21041c74: l4_update_rule_based_entries_in_cam<br>210398e0: l4_lp_inbound_acl_update_timer_callback<br>20005a74: perform_callback<br>2000647c: timer_timeout<br>00040160: sys_end_entry<br>0005e4a0: suspend<br>0005cf78: dev_sleep<br>00005024: xsyscall<br>207f2b14: main<br>00040158: sys_end_task |                                                |
| <b>Condition:</b> 4K VEs associated one on one with 4K VLANs. (VE 2 to VE 4095)<br>One physical port part of all the 4K VLANs.<br>4K IPv4 ACL and 4K IPv6 ACL contains 25 rules per ACL.<br>Both the 4K ACLs are bound on the 4K VEs                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |

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| <b>Defect ID:</b> DEFECT000623145                                                                                                                                                   |                              |
| <b>Technical Severity:</b> High                                                                                                                                                     | <b>Probability:</b> High     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                  | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                              | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> When openflow rule is configured with L2VPN, the packets that come out of the MPLS network are deformed as invalid packets.                                         |                              |
| <b>Condition:</b> Enable openflow on MPLS LSP.<br>Configure openflow rule with LSP and L2VPN label in action.<br><br>In the MPLS egress encounter, the packets are getting dropped. |                              |

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| <b>Defect ID:</b> DEFECT000623430                                                                                                           |                                        |
| <b>Technical Severity:</b> High                                                                                                             | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                          | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                      | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> High cpu utilization on 8x10G linecard module.                                                                              |                                        |
| <b>Condition:</b> Rarely a port on 8x10G module can get into PHY lockup. If this lockup state is continuous, CPU utilization can go higher. |                                        |
| <b>Recovery:</b> Disable the affected port from configuration to bring the CPU usage down.                                                  |                                        |

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| <b>Defect ID:</b> DEFECT000623841                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <p><b>Symptom:</b> Management Module may unexpectedly reload (and switches over to the standby Management Module if available). The following stack trace will be seen: -</p> <p>Possible Stack Trace (function call return address list)</p> <p>20fd7150: bgp_prepare_nlri_holder(pc)<br/> 20fd5e5c: bgp_best_route_selection_with_sorting(lr)<br/> 20fd5e5c: bgp_best_route_selection_with_sorting<br/> 20fd6574: bgp_best_route_selection_and_change<br/> 20fa6c94: bgp_check_and_update_bgp_route_in_ip_table_as_necessary<br/> 20fa63a8: bgp_add_bgp_routes_to_routing_table_if_necessary_callback<br/> 210336ec: bgp_tree_partial_traverse_with_possible_change<br/> 20fa67cc: bgp_add_bgp_routes_to_routing_table_if_necessary<br/> 20fb4764: bgp_check_updates<br/> 20fc1420: bgp_timer<br/> 20fc1050: bgp_timeout_func<br/> 20b92d10: itc_process_msgs_internal<br/> 20b931bc: itc_process_msgs<br/> 21015b80: bgp_task<br/> 00005e18: sys_end_task</p> |                                                        |
| <p><b>Condition:</b> Management Module may unexpectedly reload when BGP Best path flaps.</p> <p>BGP best path can flap in scenarios like IBGP next-hop change, flapping BGP route etc..</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                        |

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| <b>Defect ID:</b> DEFECT000624061                                                                                                                               |                                                             |
| <b>Technical Severity:</b> Medium                                                                                                                               | <b>Probability:</b> Medium                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                              | <b>Technology Group:</b> Layer 3 Routing/Network Layer      |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                          | <b>Technology:</b> ICMP - Internet Control Message Protocol |
| <p><b>Symptom:</b> VE Interface MAC is not used as source MAC for packets routed by VPLS-VE interface.</p>                                                      |                                                             |
| <p><b>Condition:</b> Save running configuration with VPLS VE and then reload.<br/> Or<br/> Copy Startup-Config with VPLS-VE configurations and then reload.</p> |                                                             |

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| <b>Defect ID:</b> DEFECT000624544                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Probability:</b> Low                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> CES/CER may unexpectedly reload with the following stack trace :-                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <p>Possible Stack Trace (function call return address list)</p> <p>21ff3114: memset(pc)<br/> 2037c4ac: os_malloc_zero(lr)<br/> 2097b280: mplp_send_itc_response<br/> 2097bf40: mplp_process_lp_data_response_continue<br/> 2095579c: itc_continue_deferred_response<br/> 2097c61c: mplp_process_lp_data_response<br/> 20954920: itc_process_msgs_internal<br/> 20954c58: itc_process_msgs<br/> 2097e408: lp_agent_task<br/> 00040158: sys_end_task</p> |                                        |
| <b>Condition:</b> There is no known condition for this issue to occur.                                                                                                                                                                                                                                                                                                                                                                                 |                                        |

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| <b>Defect ID:</b> DEFECT000624554                                                                                     |                                                    |
| <b>Technical Severity:</b> Medium                                                                                     | <b>Probability:</b> High                           |
| <b>Product:</b> Brocade NetIron OS                                                                                    | <b>Technology Group:</b> Traffic Management        |
| <b>Reported In Release:</b> NI 05.8.00                                                                                | <b>Technology:</b> Traffic Queueing and Scheduling |
| <b>Symptom:</b> VLL packets received from MPLS uplink are queued in Queue 0 on egress ports regardless of the EXP bit |                                                    |
| <b>Condition:</b> Seen on CER/CES platforms only.                                                                     |                                                    |

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| <b>Defect ID:</b> DEFECT000626658                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Router may experience intermittent ICL link instability and reload unexpectedly with the following stack trace:-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |
| <p>2034e390: pim_remove_oif_from_entry<br/> 21db84e8: pim_assert_update_oif_state<br/> 21db9544: pim_assert_cleanup_state<br/> 21db9304: pim_assert_cancel_assert<br/> 21db8798: pimsm_assert_run_fsm<br/> 2034d280: pim_add_oif_to_entry<br/> 21d266ac: mcast_mct_process_ingress_change<br/> 20352b7c: mcast_set_parent_phy_port<br/> 21da0794: pimsm_l2reg_update_phy_port_from_arp<br/> 21da0d1c: pim_process_register_msg<br/> 21daff90: mcast_receive_slave_message_internal<br/> 21daeb90: mcast_receive_slave_message<br/> 209f040c: itc_process_msgs_internal<br/> 209f08ac: itc_process_msgs<br/> 21d23378: mcast_task<br/> 00040158: sys_end_task</p> |                                           |
| <b>Condition:</b> When PIM ASSERT Winner OIF moves to blocked state.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |

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| <b>Defect ID:</b> DEFECT000627306                                             |                                               |
| <b>Technical Severity:</b> High                                               | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                            | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                        | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> Remote port connected to a loopback configured port goes down |                                               |
| <b>Condition:</b> Reloading line card that has a loopback configured port     |                                               |
| <b>Recovery:</b> Disable and enable the loopback configured port              |                                               |

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| <b>Defect ID:</b> DEFECT000627973                                                                                                                                                                     |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                       | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                    | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                | <b>Technology:</b> IPv6 Addressing                     |
| <b>Symptom:</b> CAM violation syslog message is generated along with invalid entry error message on line card console.                                                                                |                                                        |
| <b>Condition:</b> Only on line cards with algorithmic mode, while an already existing IPv6 route entry is getting added repeatedly (duplicate entry). This results in a CAM violation syslog message. |                                                        |

## Closed with code changes R06.0.00a

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 8/11/2016 in NI 6.0.00a.

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| <b>Defect ID:</b> DEFECT000577783                                     |                                                                        |
| <b>Technical Severity:</b> High                                       | <b>Probability:</b> Medium                                             |
| <b>Product:</b> Brocade NetIron OS                                    | <b>Technology Group:</b> Monitoring                                    |
| <b>Reported In Release:</b> NI 05.7.00                                | <b>Technology:</b> RAS - Reliability, Availability, and Serviceability |
| <b>Symptom:</b> Port on 100Gx2-CFP2 line card module may not come up. |                                                                        |
| <b>Condition:</b> Remote end CFP2 optic is removed and re-inserted.   |                                                                        |
| <b>Recovery:</b> Disable and enable the port on remote end.           |                                                                        |

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| <b>Defect ID:</b> DEFECT000577992                                                                                                                                                                             |                                                               |
| <b>Technical Severity:</b> Medium                                                                                                                                                                             | <b>Probability:</b> High                                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                            | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                        | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> The "flow-control/flow-control rx-pause ignore" status displayed in "show flow-cntrl" and "show interface" is not in sync with the "flow-control/flow-control rx-pause ignore" configuration. |                                                               |
| <b>Condition:</b> On executing below commands to see flow-control status:<br>1. show interface<br>2. show flow-cntrl                                                                                          |                                                               |

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| <b>Defect ID:</b> DEFECT000578252                                                                                                                |                                            |
| <b>Technical Severity:</b> High                                                                                                                  | <b>Probability:</b> High                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                               | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                           | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> Flapping of VLL                                                                                                                  |                                            |
| <b>Condition:</b> When VRF is moved from one interface to another interface belonging to different PPCR.                                         |                                            |
| <b>Workaround:</b> While moving VRF from one interface to another belonging to different ppcr, disable both the interface and then move the VRF. |                                            |

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| <b>Defect ID:</b> DEFECT000578821                                     |                                        |
| <b>Technical Severity:</b> Medium                                     | <b>Probability:</b> Low                |
| <b>Product:</b> Brocade NetIron OS                                    | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.7.00                                | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> 100G CFP2 port goes down and LED may still glow green |                                        |
| <b>Condition:</b> 100G CFP2 port status is down on both sides         |                                        |

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| <b>Defect ID:</b> DEFECT000579744                                                                                                                                                                             |                                                 |
| <b>Technical Severity:</b> High                                                                                                                                                                               | <b>Probability:</b> Low                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                            | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                        | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Management Module may reload unexpectedly while executing concurrent show commands from multiple sessions like TELNET, SSH.                                                                   |                                                 |
| <b>Condition:</b> Multiple show commands should be executed from different sessions while a "write memory" command is executed.<br><br>Example: "show lag", "show ip ospf interface", "show ipv6 bgp summary" |                                                 |

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| <b>Defect ID:</b> DEFECT000581204                                                                                                                     |                                                          |
| <b>Technical Severity:</b> Medium                                                                                                                     | <b>Probability:</b> Medium                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                    | <b>Technology Group:</b> Monitoring                      |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                | <b>Technology:</b> OAM - Operations, Admin & Maintenance |
| <b>Symptom:</b> Link of 100Gx2-CFP2 LR4 interface may go down                                                                                         |                                                          |
| <b>Condition:</b> 1. When the RX side of the cable connected to remote end was removed.<br>2. When the remote end device is Infinera WDM/DTN-X device |                                                          |
| <b>Recovery:</b> Remove and Re-insert of the TX cable from the remote end.                                                                            |                                                          |

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| <b>Defect ID:</b> DEFECT000587069                                                                                                  |                                            |
| <b>Technical Severity:</b> Medium                                                                                                  | <b>Probability:</b> Medium                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                 | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.4.00                                                                                             | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> When configuring a new VLAN on the CES, the "Error: insufficient fids available for vlan creation" message appears |                                            |
| <b>Condition:</b> On CER/CES platform, with continuous churns due to multicast traffic sources and receivers                       |                                            |

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| <b>Defect ID:</b> DEFECT000587126                                                                                                                                                                                                                      |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                      | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                     | <b>Technology Group:</b> VPN           |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                 | <b>Technology:</b> EVPN - Ethernet VPN |
| <b>Symptom:</b> When "default-local-preference" parameter is globally set, the VPNV4 advertised aggregate routes will not update the local-pref with the new parameter set, even after clearing the BGP neighborhood using "clear ip bgp neighbor all" |                                        |
| <b>Condition:</b> Aggregate routes are advertised through BGP VPN.<br>"default-local-preference" should be globally set/reset                                                                                                                          |                                        |
| <b>Workaround:</b> Run "clear ip bgp vrf <vrf-name> neighbor all" for the VRF's associated.<br>(or)<br>Remove & add "local-as" under "router bgp" which stops the BGP operation and starts again                                                       |                                        |

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| <b>Defect ID:</b> DEFECT000589935                                                                                                                                                                                                                                                                                                                              |                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> Sometime IPsec Module may reset when the following commands are issued using script:<br>no interface tunnel <tunnel-number><br>no ipsec profile <ipsec-profile-name><br>no ikev2 profile <ikev2-profile-name><br>no ikev2 policy <ikev2-policy-name><br>no ikev2 auth-proposal <auth-proposal-name><br>no ikev2 proposal <ikev2-proposal-name> |                                        |
| <b>Condition:</b> Issue the following commands using script with no delay between each command:<br>no interface tunnel <tunnel-number><br>no ipsec profile <ipsec-profile-name><br>no ikev2 profile <ikev2-profile-name><br>no ikev2 policy <ikev2-policy-name><br>no ikev2 auth-proposal <auth-proposal-name><br>no ikev2 proposal <ikev2-proposal-name>      |                                        |

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| <b>Defect ID:</b> DEFECT000590355                                                                                                                                                                                                                                                                                                                             |                                             |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                             | <b>Probability:</b> High                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                            | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                        | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> Happens on a scaled scenario on a slow server with a response time more than 10 seconds.<br>No path is available for the LSPs, so the LSPs keep retrying.                                                                                                                                                                                     |                                             |
| <b>Condition:</b> This occurs with a scaled scenario on a slow server with a response time longer than 10 seconds.<br>No path is available for the LSPs, so the LSPs keep retrying.<br>The server response time should be within milliseconds. This is one of the main reasons to use PCE.<br>The issue was seen only when using a third party test emulator. |                                             |

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| <b>Defect ID:</b> DEFECT000591098                                                                                                    |                                           |
| <b>Technical Severity:</b> High                                                                                                      | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                                                   | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.6.00                                                                                               | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Video freezes every 3 minutes                                                                                        |                                           |
| <b>Condition:</b> In ring topology where the RPT and SPT path is different and when ASSERT winner becomes blocked OIF on (S,G) entry |                                           |

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| <b>Defect ID:</b> DEFECT000591211                                                                                                                                                                                                                                                                                                                            |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                            | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                           | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                       | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> The below i2c access syslog/trap messages for PSUs will be observed.<br>SYSLOG: <174>Jan 30 03:22:39 mlxe3 System: i2c access notice (GIEI = set)Minor, Mux index 0, Mux tap 5, ID 0x1, Addr 0x5, (PS2)<br>SYSLOG: <174>Jan 30 03:22:39 mlxe3 System: i2c access notice (GIEI = clear)Minor, Mux index 0, Mux tap 5, ID 0x1, Addr 0x5, (PS2) |                                        |
| <b>Condition:</b> On running "show chassis" command continuously with all PSUs present in the chassis.                                                                                                                                                                                                                                                       |                                        |



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| <b>Defect ID:</b> DEFECT000591955                                                                                                                                                |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                           | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> Incorrect metric value might be advertised for a BGP route to a EBGp neighbor, with the neighbor configured without route-map.                                   |                                                        |
| <b>Condition:</b> The neighbor should have an out route-map,<br>The route-map should have "set metric-type internal" which will advertise the BGP route with IGP metric for MED. |                                                        |
| <b>Workaround:</b> "clear ip bgp neighbor <neighbor address > soft out"                                                                                                          |                                                        |

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| <b>Defect ID:</b> DEFECT000592929                                                                                                 |                                                        |
| <b>Technical Severity:</b> High                                                                                                   | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                                                            | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Unexpected reload of line card module.                                                                            |                                                        |
| <b>Condition:</b> Loopback interface in non-default VRF has the same IP address as that of the loopback interface in default VRF. |                                                        |
| <b>Workaround:</b> The IP addresses of loopback interfaces in default and non-default VRF need to be different.                   |                                                        |

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| <b>Defect ID:</b> DEFECT000593035                                                                                                                                                                          |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                          | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                         | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                     | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> In a VPLS network, multicast destined packets may go on wrong VPLS instance on the remote PE.                                                                                              |                                                 |
| <b>Condition:</b> In a VPLS network with "vpls-cpu-protection", multicast destined packets may go on wrong VPLS instance on the remote PE when a user disables and re-enables one of the forwarding paths. |                                                 |
| <b>Recovery:</b> Problem can be recovered by reloading the device.                                                                                                                                         |                                                 |

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| <b>Defect ID:</b> DEFECT000594318                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> Medium            |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> Security     |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b> SSH - Secure Shell |
| <b>Symptom:</b> The SSH session terminates unexpectedly when running "show tech- support" command.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |
| <b>Condition:</b> From an SSH session, execute "show tech-support" command on a scaled setup with large configuration (32 slot chassis with ACL configurations close to the supported maximum limit).                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |
| <b>Workaround:</b> Redirect the output of "show tech-support" to a file instead of streaming to the SSH terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |
| <p>Example:</p> <pre>abc@xyz{295}: ssh lab@w.x.y.z &gt; show_tech_12.txt Password: &lt;&lt;&lt;&lt; Provide password here, and monitor the output in a separate window (see below) &lt;&lt;&lt;&lt; Now we are at user privilege level  prompt. So enter "enable" &lt;&lt;&lt;&lt; Now we are at privilege exec mode.  So enter "show tech" &lt;&lt;&lt;&lt; wait for output to complete. Then exit twice (for exit out of privilege mode, and then exit out of user mode) Connection to w.x.y.z closed by remote host. Connection to w.x.y.z closed. <a href="#">abc@xyz{296}:</a></pre> <p>In a separate window the output can be monitored as follows: -</p> <pre>abc</pre> |                                       |

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| <b>Defect ID:</b> DEFECT000594398                                                                                                                                |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                               | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                           | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Parity error similar to below mentioned is seen in syslog:<br>Mar 24 09:15:42:E:CAM2PRAM Word 2 Double Bit Parity Error on port range 1/1 - 1/10 |                                        |
| <b>Condition:</b> Single bit ECC error occurs on the Linecard module NP memory.                                                                                  |                                        |

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| <b>Defect ID:</b> DEFECT000595113                                                                                                                                                                                              |                                                               |
| <b>Technical Severity:</b> High                                                                                                                                                                                                | <b>Probability:</b> Medium                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                             | <b>Technology Group:</b> Layer 3 Routing/Network Layer        |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                         | <b>Technology:</b> DHCP - Dynamic Host Configuration Protocol |
| <b>Symptom:</b> When the router is acting as DHCPv6 relay agent, it is not choosing DHCPv6 client facing interface's link-local address as the source address in the IPv6 packet when it forwards reply message to the client. |                                                               |
| <b>Condition:</b> The device should act as a DHCPv6 relay agent.                                                                                                                                                               |                                                               |

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| <b>Defect ID:</b> DEFECT000595638                                                                                         |                              |
| <b>Technical Severity:</b> High                                                                                           | <b>Probability:</b> Low      |
| <b>Product:</b> Brocade NetIron OS                                                                                        | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 06.0.00                                                                                    | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> DUT might experience a unplanned restart when more than 32K OpenFlow flows are being configured over SSL. |                              |
| <b>Condition:</b> More than 32K flows are sent from OpenFlow controller.                                                  |                              |

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| <b>Defect ID:</b> DEFECT000595704                                                                                                                                                                    |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                      | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                   | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                               | <b>Technology:</b> GRE - Generic Routing Encapsulation |
| <b>Symptom:</b> Unable to establish TCP connection over GRE Tunnel.                                                                                                                                  |                                                        |
| <b>Condition:</b> The command "ip tcp redirect-gre-tcp-syn" should be present in the global configuration, while the tunnel source port should have the command "ip tcp adjust-mss <value>" enabled. |                                                        |
| <b>Workaround:</b> Remove the command "ip tcp adjust-mss <value>" from the interface configuration.                                                                                                  |                                                        |

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| <b>Defect ID:</b> DEFECT000595942                                                                                                                                                                                                                                                                        |                                             |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                          | <b>Probability:</b> Medium                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                       | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                   | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> System reset is seen sometimes when select-path is retrying a new instance due to an IGP neighbor down event and no path is available.                                                                                                                                                   |                                             |
| <b>Condition:</b> The system has IGP sync enabled and an LSP has selected a path as the Active path. In addition there is no alternative path for the selected secondary to come UP. Under these conditions, if an interface flap in the network triggers a neighbor down event, this issue may be seen. |                                             |

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| <b>Defect ID:</b> DEFECT000595982                                                                                                                                             |                                                             |
| <b>Technical Severity:</b> High                                                                                                                                               | <b>Probability:</b> High                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                            | <b>Technology Group:</b> Layer 3 Routing/Network Layer      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                        | <b>Technology:</b> BFD - BiDirectional Forwarding Detection |
| <b>Symptom:</b> BFD session state is staying UP even after un-tagging the port from VLAN.                                                                                     |                                                             |
| <b>Condition:</b> Sometimes after untagging a port from VLAN.                                                                                                                 |                                                             |
| <b>Recovery:</b> Execute the below command after untagging ports from VLAN if a BFD session state does not transition to DOWN state<br>"clear bfd neighbors A.B.C.D/X:X::X:X" |                                                             |

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| <b>Defect ID:</b> DEFECT000596110                                                                                                           |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                           | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                          | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                      | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> A LAG can be deployed with inconsistent sFlow configuration on primary port and secondary port.                             |                                                 |
| <b>Condition:</b> "sflow forwarding" is enabled on an interface and is added to a deployed LAG whose primary port does not have it enabled. |                                                 |
| Note: This does not affect the LAG configuration                                                                                            |                                                 |

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| <b>Defect ID:</b> DEFECT000596196                                                                                                                                                                                                                                                               |                                     |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                               | <b>Probability:</b> Medium          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                              | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                          | <b>Technology:</b> Syslog           |
| <b>Symptom:</b> Alarm messages similar to the ones given below will be seen in Syslog/LP console along with trap message when 10GE Tunable SFP+ optics are connected.<br><br>Apr 20 14:17:38:A: Latched low RX Power alarm, port 1/3<br>Apr 20 14:17:38:A: Latched low RX Power alarm, port 1/1 |                                     |
| <b>Condition:</b> Tunable Optic SFPs connected                                                                                                                                                                                                                                                  |                                     |
| <b>Recovery:</b> "dm optic <port> eeprom" command can be executed on the associated Linecard Module to suppress the alarm messages in the Syslog.                                                                                                                                               |                                     |

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| <b>Defect ID:</b> DEFECT000596208                                   |                                                             |
| <b>Technical Severity:</b> Medium                                   | <b>Probability:</b> High                                    |
| <b>Product:</b> Brocade NetIron OS                                  | <b>Technology Group:</b> Layer 3 Routing/Network Layer      |
| <b>Reported In Release:</b> NI 06.0.00                              | <b>Technology:</b> BFD - BiDirectional Forwarding Detection |
| <b>Symptom:</b> The router inexplicably restarted.                  |                                                             |
| <b>Condition:</b> When BFD sessions are established over LAG ports. |                                                             |

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| <b>Defect ID:</b> DEFECT000596312                                                                                                                                                                                                |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                | <b>Probability:</b> Low                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                               | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                           | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Link SFM 1/FE 1/Link 1 will be put to DOWN state with following message due to side effect of auto tuning.<br>Warning: Fabric Link shutdown due to Autotuning failure for SFM 1/FE 1/Link 1 -> LP 1/FE 1/Link 76 |                                        |
| <b>Condition:</b> Link SFM 1/FE 1/Link 1 will be put to DOWN state when auto-tuning fails.                                                                                                                                       |                                        |
| <b>Recovery:</b> Power on link SFM 1/FE 1/Link 1 manually.                                                                                                                                                                       |                                        |

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| <b>Defect ID:</b> DEFECT000596446                                                                                                                                                                                                                                                                                                                                                            |                                             |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                            | <b>Probability:</b> High                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                           | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                       | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> After a request has been made, if the user disables the LSP, removes 'pce compute' from the LSP config and enables it, and the response comes or timeout occurs, the error code of the LSP will be incorrect. This happens in scenarios where the server response is very slow, in the order of 10s of seconds, or when the request is timed out due to unresponsive server. |                                             |
| <b>Condition:</b> Seen only with PCE servers with extremely slow response time, or when the request is timed out as per the request timer, and the user changes the config on the LSP during this time to make the LSP locally computed.                                                                                                                                                     |                                             |

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| <b>Defect ID:</b> DEFECT000596574                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                                                                                                                                    | <b>Probability:</b> High                           |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                     | <b>Technology Group:</b> Traffic Management        |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology:</b> Traffic Queueing and Scheduling |
| <b>Symptom:</b> TM errors on a 32-slot chassis with 24x10G modules resulting in traffic drop.                                                                                                                                                                                                                                                                                                                          |                                                    |
| <b>Condition:</b> Seen on a 32-slot chassis with 24x10G modules present. Triggered by either<br>- a chassis reload or<br>- an LP insertion while traffic is present, or<br>- an LP reboot while traffic is present.                                                                                                                                                                                                    |                                                    |
| <b>Workaround:</b> For the chassis reload - Add the command "wait-for-all-cards" in the configuration before reload. This will ensure that the issue does not happen during chassis reload.<br>For LP insertion - If LP is inserted without any config present for the LP, the issue will not happen. If LP is inserted with a config present for the LP, the issue can happen and recovery will need to be performed. |                                                    |
| <b>Recovery:</b> Reload the chassis after configuring the "wait-for-all-cards" command.                                                                                                                                                                                                                                                                                                                                |                                                    |

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| <b>Defect ID:</b> DEFECT000597413                                                                                                                                                                                                                                                                   |                                               |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                   | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                  | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                              | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> Link fault signaling settings are not applied after reloading the chassis.                                                                                                                                                                                                          |                                               |
| <b>Condition:</b> With link fault signaling enabled globally either of the following conditions can cause this issue: -<br><ul style="list-style-type: none"> <li>- A new Linecard Module is inserted</li> <li>- Existing Linecard Module is power cycled</li> <li>- Chassis is reloaded</li> </ul> |                                               |
| <b>Recovery:</b> Disable and enable link-fault-signaling globally                                                                                                                                                                                                                                   |                                               |

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| <b>Defect ID:</b> DEFECT000597682                                                                                                                                                                                                |                                                         |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                              | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                           | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> OSPFv3 task could cause router to unexpectedly reload                                                                                                                                                            |                                                         |
| <b>Condition:</b> If the OSPFv3 task receives multiple external LSAs with Forwarding Address field and if the longest prefix match for the Forwarding Address in OSPFv3 is in an area not same as ASBR (external LSA originator) |                                                         |

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| <b>Defect ID:</b> DEFECT000597791                                                                                          |                                 |
| <b>Technical Severity:</b> Medium                                                                                          | <b>Probability:</b> Medium      |
| <b>Product:</b> Brocade NetIron OS                                                                                         | <b>Technology Group:</b> MPLS   |
| <b>Reported In Release:</b> NI 05.6.00                                                                                     | <b>Technology:</b> IP over MPLS |
| <b>Symptom:</b> MPLS Traffic forwarding failing on MPLS transit node after reloading or inserting ingress Linecard module. |                                 |
| <b>Condition:</b> Reload or insertion of Linecard module which has MPLS configuration.                                     |                                 |
| <b>Recovery:</b> Disable and enable the outgoing interface so that it would clear the existing ARP entries and relearn it. |                                 |

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| <b>Defect ID:</b> DEFECT000597936                                                                                                                   |                                                              |
| <b>Technical Severity:</b> High                                                                                                                     | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                  | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                              | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> Customer not able to fetch the VRRP related information (vrrpAssoIpAddrTable, vrrpRouterStatsTable) through SNMP.                   |                                                              |
| <b>Condition:</b> When VRRP is configured and during polling the VRRP related information (vrrpAssoIpAddrTable, vrrpRouterStatsTable) through SNMP. |                                                              |

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| <b>Defect ID:</b> DEFECT000599114                                                                                                                                                                                                                                                                                  |                                                 |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                    | <b>Probability:</b> Low                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                 | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                             | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> When MCT VPLS cluster node status changes from Active to Standby, VPLS session between MCT and remote peer does not go down, and MAC address(es) learned against the VPLS session on the Remote peer are not flushed. This will result in traffic loss from the remote peer to the client devices. |                                                 |
| <b>Condition:</b> "client-interface shutdown" is enabled on MCT VPLS cluster.                                                                                                                                                                                                                                      |                                                 |
| <b>Recovery:</b> Flap the remote peer OR execute "clear mac" on remote peer.                                                                                                                                                                                                                                       |                                                 |

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| <b>Defect ID:</b> DEFECT000599540                                                                                                                                          |                                                |
| <b>Technical Severity:</b> High                                                                                                                                            | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                         | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                     | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Erroneous counting of IPv6 traffic results in incorrect rate limiting of the received traffic and hence packet drops                                       |                                                |
| <b>Condition:</b> IPv6 ACLs with rate limiters should be configured along with IPv4/Port level rate limiters<br>Modification (Delete/Add) of IPv4/Port level rate limiters |                                                |
| <b>Recovery:</b> Reload of the affected Linecard Module is the only option                                                                                                 |                                                |

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| <b>Defect ID:</b> DEFECT000600151                                                                                                              |                                        |
| <b>Technical Severity:</b> High                                                                                                                | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                                             | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                         | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> Observe unexpected reload of standby Management module                                                                         |                                        |
| <b>Condition:</b> This issue may be observed when a large number of IPsec tunnels are configured and IPSEC re-keying mechanism is in progress. |                                        |

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| <b>Defect ID:</b> DEFECT000600532                                                                                                                                                                              |                                                  |
| <b>Technical Severity:</b> Medium                                                                                                                                                                              | <b>Probability:</b> Medium                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                             | <b>Technology Group:</b> Security                |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                         | <b>Technology:</b> MAC Port-based Authentication |
| <b>Symptom:</b> When "delete-dynamic-learn" is enabled under "global-port-security", MAC addresses learned on a PMS enabled LAG do not get deleted when the LAG goes down.                                     |                                                  |
| <b>Condition:</b> Under "global-port-security", "delete-dynamic-learn" is enabled.<br>PMS is enabled on a LAG port.<br>MAC addresses are learned on LAG's member ports.<br>LAG is either disabled or goes down |                                                  |
| <b>Recovery:</b> Delete the Secure MAC address learned on the LAG manually.                                                                                                                                    |                                                  |

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| <b>Defect ID:</b> DEFECT000600734                                                                                                                                                                                                                                                                                                                                                          |                                                 |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                            | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                         | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                                     | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> Secondary port in a LAG remains in LACP-BLOCKED state after removing it and re-adding it in a LAG that has "force-primary-port-mac" enabled.                                                                                                                                                                                                                               |                                                 |
| <b>Condition:</b> LAG configuration should have "force-primary-port-mac" enabled.<br>L2ACL used on the primary port should have a permit rule only for primary port of the peer LAG.<br>Ex: If primary port MAC of the peer is aaaa.bbbb.cccc the L2 ACL should be :<br>mac access-list acl_sample<br>permit aaaa.bbbb.cccc ffff.ffff.ffff any any etype any<br>deny any any any etype any |                                                 |
| <b>Workaround:</b> Add the interface MAC of all the member ports of the LAG to the L2ACL                                                                                                                                                                                                                                                                                                   |                                                 |
| <b>Recovery:</b> Add the interface MAC of the current primary port of the LAG to the L2ACL if there is a change in the primary port status                                                                                                                                                                                                                                                 |                                                 |

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| <b>Defect ID:</b> DEFECT000600930                                                                                                                                    |                                                               |
| <b>Technical Severity:</b> High                                                                                                                                      | <b>Probability:</b> Medium                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                   | <b>Technology Group:</b> Layer 3 Routing/Network Layer        |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                                               | <b>Technology:</b> DHCP - Dynamic Host Configuration Protocol |
| <b>Symptom:</b> In some cases, the DHCP clients will not get the address from the server when the MLX is acting as a relay agent.                                    |                                                               |
| <b>Condition:</b> The VE interface is configured with an IP unnumbered loopback. MLX receives a DHCP discovery packet with option-82 and option-43 already inserted. |                                                               |
| <b>Workaround:</b> Move the IP address from the loopback interface to the VE interface. Disable option 82.                                                           |                                                               |

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| <b>Defect ID:</b> DEFECT000601634                                                                                                    |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                    | <b>Probability:</b> Low                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                   | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.8.00                                                                                               | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> On CES/CER, IP multicast traffic received on ICL port will be forwarded to local CCEP even though remote CCEP is UP. |                                                 |
| <b>Condition:</b> Add a member-VLAN to the MCT cluster.                                                                              |                                                 |
| <b>Recovery:</b> Save the new configuration & Reload.                                                                                |                                                 |

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| <b>Defect ID:</b> DEFECT000602818                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Probability:</b> Medium          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Technology:</b> Telemetry        |
| <b>Symptom:</b> ACLs do not work and no traffic is forwarded. No CAM entries found in line cards.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |
| <b>Condition:</b> A memory leak in the line-card can cause memory allocation to fail and the line card becomes unable to store the ACL entries received from management module. Since the ACL rules are not downloaded, they are not programmed in the hardware.<br>The memory leak is caused by updates in the next hop VLAN of the route map where the ACL entries are present.<br>This can be triggered by events such as port flap on the line card in question, reloads of other line cards in the system and updates in the VLAN configuration. |                                     |

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| <b>Defect ID:</b> DEFECT000602865                                                                                                                                                                                                  |                              |
| <b>Technical Severity:</b> High                                                                                                                                                                                                    | <b>Probability:</b> High     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                 | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                             | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> When OpenFlow rules are configured in reverse order of priority, complete traffic loss may be observed.                                                                                                            |                              |
| <b>Condition:</b> <ol style="list-style-type: none"> <li>1. Configure OpenFlow rule with priority 100</li> <li>2. Configure OpenFlow rule with priority 90 on the same port.</li> <li>3. Observe complete traffic loss.</li> </ol> |                              |
| <b>Workaround:</b> Apply OpenFlow rules in ascending priority order, i.e., first apply rule with priority 90 and then priority 100.                                                                                                |                              |

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| <b>Defect ID:</b> DEFECT000604313                                                                                                                                                                                                                                                                                         |                                               |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                           | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                        | <b>Technology Group:</b> Security             |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                    | <b>Technology:</b> PBR - Policy-Based Routing |
| <p><b>Symptom:</b> L2PBR binding not propagated to Linecard.<br/>Memory leak on line card when L2PBR is bound on the interface. IPv4 PBR entries are not programmed to TCAM.</p>                                                                                                                                          |                                               |
| <p><b>Condition:</b> L2PBR binding isn't propagated to Linecard when binding is performed before defining the route-map.<br/>Memory leak on the Linecard when L2PBR is applied on the interface.<br/>IPv4 PBR entries aren't programmed to hardware when the same route-map is bound on the same interface for L2PBR.</p> |                                               |
| <p><b>Workaround:</b> Define route-map before binding on interface for L2PBR entries to be programmed.</p>                                                                                                                                                                                                                |                                               |



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| <b>Defect ID:</b> DEFECT000604894                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Probability:</b> Medium                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Technology:</b> MPLS Traffic Engineering |
| <p><b>Symptom:</b> Below symptoms are seen on router with MPLS Traffic Engineering configured with OSPF-TE as IGP.</p> <ol style="list-style-type: none"> <li>1. Memory Allocation Failures console prints will be seen on Router.</li> <li>2. Router Active Management Module goes to low available memory, less than 20%.<br/> Brocade#show memory<br/> ...<br/> Available Memory (%): 20 percent<br/> ... </li> <li>3. Large number (greater than 15,000) of allocations seen for TE-LSA-Id elements in MPLS; Alloc field of TE-LSA-Id in below command output<br/> Brocade#show mpls memory<br/> ...<br/> Mem-Type Alloc BytesAlloc TotalAlloc TotalFree AllocPeak AllocFail FreeFail<br/> ...<br/> TE-LSA-Id 10145010 578265570 10426232 281222 10145010 0 0<br/> ... </li> </ol> <p>Large number of TE-LSA-Id allocations implies that many of its allocations were not freed when they were supposed to be freed.<br/> Memory Allocation failure in MPLS will lead to unspecified behaviors like CSPF fail, LSP not coming up, Fast reroute not happening,</p> |                                             |
| <p><b>Condition:</b> Above mentioned Symptoms will be seen on router only with below conditions</p> <ol style="list-style-type: none"> <li>1. MPLS Traffic Engineering configured using OSPF TE.<br/> Brocade(config-mpls-policy)#traffic-engineering ospf area [area-id]</li> <li>2. A network with high frequency of OSPF link flaps, OSPF LSA purges.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |
| <p><b>Recovery:</b> Restart/switchover of the Management Module is the only recovery mechanism. This may result in temporary disruption of traffic.<br/> However, if the operator observes a low memory situation then the operator can check for the third condition mentioned in customer symptoms. If it is confirmed that it is a TE-LSA-Id high memory utilization and memory allocation fails are not seen yet then,<br/> At maintenance window,</p> <ol style="list-style-type: none"> <li>1. Note down the current configuration of traffic engineering under mpls policy</li> <li>2. un-configure MPLS policy mode OSPF traffic engineering completely as per below command.<br/> BROCADE(config-mpls-policy)#no traffic-engineering ospf<br/> Make sure that the TE data base is cleared using 'show mpls te database'</li> <li>3. Configure OSPF Traffic engineering again using step 1 noted configuration.</li> </ol> <p>Above steps shall release all non freed memory held by TE-LSA-Id entry in MPLS.</p>                                             |                                             |

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| <b>Defect ID:</b> DEFECT000605297                                                                                                                                                                                                                                  |                                                              |
| <b>Technical Severity:</b> Low                                                                                                                                                                                                                                     | <b>Probability:</b> Low                                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                 | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                             | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <p><b>Symptom:</b> Parse error due to missing double quotes in two lines in MIB file.</p> <ol style="list-style-type: none"> <li>1) --#TYPE "Brocade Trap: Lockup and recovery threshold exceeded</li> <li>2) -- Destination %s SPI %s Message Type %u.</li> </ol> |                                                              |
| <b>Condition:</b> MIB Compile errors seen due to parsing issues in certain SNMP Managers.                                                                                                                                                                          |                                                              |

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| <b>Defect ID:</b> DEFECT000606368                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Ports configured under GTP profile is lost from running configuration upon reload.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |
| <b>Condition:</b> When a LAG port is added to the GTP profile and if the corresponding LAG has individual ports (non-consecutive) only or has a combination of individual (non-consecutive) as well as range of ports configured.<br>Following is the example configuration with non-consecutive ports that gets lost on reload,<br>gtp brc_gtp_profile_strip_lag 1<br>ports eth 14/1 eth 14/3 eth 32/4<br>ingress-inner-filter<br><br>Following is the example configuration with non-consecutive ports as well as range of ports, that gets lost on reload,<br>gtp brc_gtp_profile_strip_lag 1<br>ports eth 14/1 to 14/5 eth 32/4<br>ingress-inner-filter |                                                        |

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| <b>Defect ID:</b> DEFECT000606395                                                                                                                                            |                                             |
| <b>Technical Severity:</b> High                                                                                                                                              | <b>Probability:</b> High                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                           | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                       | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> Management module will unexpectedly reset                                                                                                                    |                                             |
| <b>Condition:</b> This will happen only when "mpls adjust-bandwidth lsp <name>" is entered with a name other than one of the configured non-bypass RSVP LSPs on that system. |                                             |
| <b>Workaround:</b> It can be avoided by ensuring that the entered name is correct and of an already configured non-bypass RSVP LSP on the system.                            |                                             |

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| <b>Defect ID:</b> DEFECT000608572                                                                                                                                                              |                                                              |
| <b>Technical Severity:</b> High                                                                                                                                                                | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                             | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                         | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> When SNMP polling of 100Gx2-CFP2 optics OR CFP2 to QSFP28 adapter, the Management module may unexpectedly reload and switchover to the standby Management module if available. |                                                              |
| <b>Condition:</b> SNMP polling on tables: "snIfOpticalMonitoringInfoTable" OR "snIfOpticalLaneMonitoringTable" with 100Gx2-CFP2 optics OR CFP2 to QSFP28 adapter.                              |                                                              |
| <b>Workaround:</b> Disable SNMP polling for the tables: "snIfOpticalMonitoringInfoTable" and "snIfOpticalLaneMonitoringTable".                                                                 |                                                              |

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| <b>Defect ID:</b> DEFECT000610730                                                                    |                                               |
| <b>Technical Severity:</b> High                                                                      | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                   | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 06.0.00                                                               | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> Port flaps will be observed 3-4 times when 100G CFP2 SR10 or QSFP28 port is enabled. |                                               |
| <b>Condition:</b> Always                                                                             |                                               |

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| <b>Defect ID:</b> DEFECT000610820                                                                                                                  |                                        |
| <b>Technical Severity:</b> Critical                                                                                                                | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                 | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                             | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Link flaps 3 or 4 times before the link stays UP when disable and enable interface having CFP2 SR10 or QSFP28 transceiver modules. |                                        |
| <b>Condition:</b> This issue is specific to QSFP28 and CFP2 SR10.                                                                                  |                                        |

## Closed with code changes R06.0.00

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 4/25/2016 in NI 6.0.00. This list was updated 5/26/16.

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| <b>Defect ID:</b> DEFECT000534315                                                                                                                                                                                                                                            |                                               |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                              | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                           | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                       | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> MLX8x10 line cards may fail initialization in a chassis with scaled configurations with the following reason code seen in "show module" output.<br><br>CARD_STATE_DOWN(22)<br><br>..<br>Card State Down Reason Code:<br>22 CARD_DOWN_REASON_TM_LBG_TEST_FAIL |                                               |
| <b>Condition:</b> Certain scaled scenarios and multiple line cards powering up at the same time may cause the issue.                                                                                                                                                         |                                               |
| <b>Recovery:</b> Power cycle the line card.                                                                                                                                                                                                                                  |                                               |

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| <b>Defect ID:</b> DEFECT000544399                                                                                                                                                                                             |                                                               |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                             | <b>Probability:</b> High                                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                            | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                        | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> Error message "free_config_buffer: bad buffer address: 28310000 20335b90 20335fb0 209f1c2c 20ae38fc 20ae3c34 209e98e8 00005e18 00000000" may be seen after successful config file transfer with tftp via ssh. |                                                               |
| <b>Condition:</b> Executing transfer of config file via tftp over SSH. .                                                                                                                                                      |                                                               |

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| <b>Defect ID:</b> DEFECT000551250                                                                                                                                                                    |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                      | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                   | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                               | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> CER configured as DHCP relay agent does not forward the DHCP offer.                                                                                                                  |                                                        |
| <b>Condition:</b> 1) From CER the reachability to another DHCP server/relay agent should be set up via static route under VRF with VE interface.<br>2) Unconfigure and reconfigure the VE interface. |                                                        |
| <b>Recovery:</b> Unconfigure and reconfigure the static route that points to the DHCP server/ relay agent.                                                                                           |                                                        |

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| <b>Defect ID:</b> DEFECT000552823                                                                       |                                                          |
| <b>Technical Severity:</b> High                                                                         | <b>Probability:</b> Medium                               |
| <b>Product:</b> Brocade NetIron OS                                                                      | <b>Technology Group:</b> Monitoring                      |
| <b>Reported In Release:</b> NI 05.8.00                                                                  | <b>Technology:</b> OAM - Operations, Admin & Maintenance |
| <b>Symptom:</b> Remote-fault will not work for the ports of 20x10GE and 4x10GE-IPSEC line card modules. |                                                          |
| <b>Condition:</b> Applicable for ports of 20x10GE and 4x10GE-IPSEC line card modules.                   |                                                          |

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| <b>Defect ID:</b> DEFECT000555532                                                                                |                                        |
| <b>Technical Severity:</b> High                                                                                  | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                               | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                                           | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> IPsec tunnel flaps may be observed and related SysLogs are generated.                            |                                        |
| <b>Condition:</b> May happen in a scaled scenario with both IPsec and sFlow configuration on an IPsec interface. |                                        |

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| <b>Defect ID:</b> DEFECT000557149                                                                                |                              |
| <b>Technical Severity:</b> Medium                                                                                | <b>Probability:</b> High     |
| <b>Product:</b> Brocade NetIron OS                                                                               | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 05.9.00                                                                           | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> Warning message<br>"ITC_MSG_TYPE_HAL_RESPONSE (00130094) received for app 0000003f" may be seen. |                              |
| <b>Condition:</b> When using an OpenFlow 1.3 controller to administrate OpenFlow port up/down state.             |                              |

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| <b>Defect ID:</b> DEFECT000558739                                                                                                                                                                                                                                   |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                   | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                  | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                              | <b>Technology:</b> GRE - Generic Routing Encapsulation |
| <b>Symptom:</b> IPv4 MTU gets cleared despite throwing an error message while executing the command "no ip mtu <value>"                                                                                                                                             |                                                        |
| <b>Condition:</b> <ol style="list-style-type: none"> <li>1. Support for Jumbo frames should be enabled</li> <li>2. Configure IPv4 MTU to be greater than 1500 bytes</li> <li>3. Configure GRE Tunnel MTU to be greater than default Maximum value (1476)</li> </ol> |                                                        |
| <b>Workaround:</b> The GRE Tunnel MTU can be re-configured after removing the IPv4 MTU (OR)<br>Remove the GRE Tunnel MTU configuration before modifying IPv4 MTU                                                                                                    |                                                        |

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| <b>Defect ID:</b> DEFECT000558932                                                                                 |                                                               |
| <b>Technical Severity:</b> Low                                                                                    | <b>Probability:</b> Low                                       |
| <b>Product:</b> Brocade NetIron OS                                                                                | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.8.00                                                                            | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> Continuous reload of line card module                                                             |                                                               |
| <b>Condition:</b> Source path having invalid FPGA image                                                           |                                                               |
| <b>Recovery:</b> Place the correct image in the source path and retry the line card module auto upgrade procedure |                                                               |

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| <b>Defect ID:</b> DEFECT000559099                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                         |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Technology:</b> BGP4+ - IPv6 Border Gateway Protocol |
| <b>Symptom:</b> 6PE and 6VPE may not work for a certain range of BGP nexthop addresses. If any of the higher two octets of the nexthop address is 255, then these nexthops will not be reachable.                                                                                                                                                                                                                                                                             |                                                         |
| <b>Condition:</b> In 6PE and 6VPE deployment if the BGP nexthop address used is of range where any of the higher two octets is 255 in the IPv4 address part of the IPv4 mapped IPv6 address, this nexthop address and the BGP routes with that nexthop address will not be reachable.<br><br>For example, if the BGP nexthop for 6PE or 6VPE is :FFFF:X.X.Y.Y (IPv4 mapped IPv6 address), and if X is set to 255, then those nexthop addresses might not be reachable in BGP. |                                                         |
| <b>Workaround:</b> Use address in a different range as BGP nexthop address.                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |
| <b>Recovery:</b> Issue clear ip bgp neighbor <x.x.x.x> or clear ip bgp vpnv6 neighbor <x.x.x.x>, where <x.x.x.x> represents 6PE or 6VPE neighbor.                                                                                                                                                                                                                                                                                                                             |                                                         |

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| <b>Defect ID:</b> DEFECT000559396                                                                                                                                                                                                                                                                         |                                                         |
| <b>Technical Severity:</b> Low                                                                                                                                                                                                                                                                            | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                        | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                    | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> 1) Same destination learnt from multiple ASBRs is shown as OSPF ECMP route in routing table.<br>2) Same destination learnt from multiple ASBRs (at least one of them in a NSSA area), only the non-NSSA route is shown in the routing table.                                              |                                                         |
| <b>Condition:</b> Routes learnt by ABRs in the following cases: -<br>1) Same destination advertised by ASBRs present in multiple areas with at least one of them in the backbone area.<br>2) Same destination advertised by ASBRs present in multiple areas with at least one of them configured as NSSA. |                                                         |

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| <b>Defect ID:</b> DEFECT000559995                                                                                                                                                                                                                                                         |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                         | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                        | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                    | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> Unexpected reload of Management module in BGP task                                                                                                                                                                                                                        |                                                        |
| <b>Condition:</b> When BGP receives route updates with duplicate community from peer and either of the following conditions occur: -<br>1) Route map processing is done for the received duplicate community<br>2) The following command is executed<br>show ip bgp routes detail x.x.x.x |                                                        |

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| <b>Defect ID:</b> DEFECT000560809                                                                                                                         |                                                        |
| <b>Technical Severity:</b> High                                                                                                                           | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                        | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                    | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> Unexpected reload of Management Module.                                                                                                   |                                                        |
| <b>Condition:</b> 1. "static-network" should be configured under BGP<br>2. BGP peer announcing the route, which is same as the configured static network. |                                                        |
| <b>Workaround:</b> Have a route-map configured that will deny routes from peers that are matching with the static-network configured.                     |                                                        |

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| <b>Defect ID:</b> DEFECT000560832                                                                 |                                             |
| <b>Technical Severity:</b> Medium                                                                 | <b>Probability:</b> Medium                  |
| <b>Product:</b> Brocade NetIron OS                                                                | <b>Technology Group:</b> Traffic Management |
| <b>Reported In Release:</b> NI 05.8.00                                                            | <b>Technology:</b> QoS - Quality of Service |
| <b>Symptom:</b> Throughput issues and packet loss when chassis is reloaded multiple times.        |                                             |
| <b>Condition:</b> Packets getting dropped in traffic manager. It happens for all line card types. |                                             |

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| <b>Defect ID:</b> DEFECT000561519                                                                                                                                                                                      |                              |
| <b>Technical Severity:</b> High                                                                                                                                                                                        | <b>Probability:</b> Medium   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                     | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                 | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> Disable/Enable of OpenFlow port from controller fails for certain conditions when the controller is connected through the management port.                                                             |                              |
| <b>Condition:</b> When the controller is connected via the management port and<br>- is trying to enable/disable OpenFlow port 1/1<br>- is trying to enable/disable OpenFlow hybrid port and this port is part of a VE. |                              |
| <b>Workaround:</b> For VE port, assign the global VE MAC to the MAC address of a physical port other than port 1/1.                                                                                                    |                              |

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| <b>Defect ID:</b> DEFECT000561715                                                               |                                                |
| <b>Technical Severity:</b> Medium                                                               | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                              | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.9.00                                                          | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Accounting of Layer 2 Policy based routing will not work after hitless upgrade. |                                                |
| <b>Condition:</b> It happens when hitless upgrade is done.                                      |                                                |
| <b>Recovery:</b> Need to reset the line card module to recover from this issue.                 |                                                |

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| <b>Defect ID:</b> DEFECT000561919                                                                                                                                                                                                 |                                               |
| <b>Technical Severity:</b> High                                                                                                                                                                                                   | <b>Probability:</b> Medium                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                            | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> Traffic loss was seen and all the traffic was showing as dropped on NP on a 4x10G module.<br>Port 6/1 RX<br>NP Rx Raw Good Packet = (84418766)<br>NP Rx Forward Packet = (0)<br>NP Rx Discard Packet = (84418766) |                                               |
| <b>Condition:</b> The issue appeared after line card went into rolling reboot.                                                                                                                                                    |                                               |

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| <b>Defect ID:</b> DEFECT000562196                                                                                                                                                                                                                                                                                    |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                    | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                   | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                               | <b>Technology:</b> ARP - Address Resolution Protocol   |
| <b>Symptom:</b> On CER/CES, packets forwarded by HW using a static route to a /32 destination may be lost                                                                                                                                                                                                            |                                                        |
| <b>Condition:</b> This issue is applicable only for CER/CES platforms<br>(1) Static route configured to reach a /32 destination with nexthop set to one of the VE interfaces<br>(2) Traffic to the destination should have been forwarded for some time, stopped and then resumed after a gap of at least one minute |                                                        |
| <b>Recovery:</b> "clear ip route x.x.x.x/x" for the affected route                                                                                                                                                                                                                                                   |                                                        |

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| <b>Defect ID:</b> DEFECT000562309                            |                                                        |
| <b>Technical Severity:</b> High                              | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                           | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.2.00                       | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> BGP (peer) flap on CER devices.              |                                                        |
| <b>Condition:</b> When system up time is more than 1242 days |                                                        |

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| <b>Defect ID:</b> DEFECT000562467                                                                                                                                             |                                           |
| <b>Technical Severity:</b> High                                                                                                                                               | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                            | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                        | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Downstream devices connected on CEP port may not receive multicast traffic from an MCT peer when the uplink connecting to the Multicast Source goes down.     |                                           |
| <b>Condition:</b> - MCT peers are CER/CES devices, and<br>- uplink connecting to the Multicast Source and the MCT ICL on which the joins are received are on the same VLAN/VE |                                           |
| <b>Workaround:</b> Use separate VLANs for ICL and uplink CCEP port                                                                                                            |                                           |
| <b>Recovery:</b> "clear ip pim mcache" on the MCT peer which is currently receiving traffic from CCEP uplink port.                                                            |                                           |

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| <b>Defect ID:</b> DEFECT000562937                                                                                     |                                           |
| <b>Technical Severity:</b> Medium                                                                                     | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                                    | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.6.00                                                                                | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> "TM EGQ Discards" counters are being incremented in the egress Traffic Manager.                       |                                           |
| <b>Condition:</b> Reception of multicast traffic from a directly connected source for which no listeners are present. |                                           |

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| <b>Defect ID:</b> DEFECT000562974                                                                                                                                    |                                                     |
| <b>Technical Severity:</b> Medium                                                                                                                                    | <b>Probability:</b> Medium                          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                   | <b>Technology Group:</b> Security                   |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                               | <b>Technology:</b> 802.1x Port-based Authentication |
| <b>Symptom:</b> If a MAC gets blocked on a PMS enabled port, packets coming from the same MAC on a non-PMS enabled port will not result in source MAC being learned. |                                                     |
| <b>Condition:</b> - Topology that has possibility of loop formation<br>- Mixture of PMS and non PMS enabled ports                                                    |                                                     |

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| <b>Defect ID:</b> DEFECT000563075                                                                                                                                                                              |                                                               |
| <b>Technical Severity:</b> High                                                                                                                                                                                | <b>Probability:</b> High                                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                             | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                         | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> MBridge copy failure with error message "Failed to write to destination file" may be seen.                                                                                                     |                                                               |
| <b>Condition:</b> This happens when the MBridge FPGA image is copied more than once without a reload between the copy operations, if there is not enough space in flash to accommodate multiple MBridge files. |                                                               |
| <b>Workaround:</b> Leave enough space in flash before copying the image/FPGA                                                                                                                                   |                                                               |
| <b>Recovery:</b> Delete the '__mbridge.old' file as shown below and then copy the MBridge file -<br>Router#del __mbridge.old                                                                                   |                                                               |

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| <b>Defect ID:</b> DEFECT000563167                                                                                                   |                                                        |
| <b>Technical Severity:</b> Low                                                                                                      | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                  | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.6.00                                                                                              | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> The command "show vlan ethernet <slot/port>" does not show the secondary port of a LAG configured under a VLL VLAN. |                                                        |
| <b>Condition:</b> LAG port should be configured to be a part of a VLL VLAN.                                                         |                                                        |

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| <b>Defect ID:</b> DEFECT000563199                                                                               |                                                 |
| <b>Technical Severity:</b> High                                                                                 | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                              | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                          | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> Port on a 8x10G Line card module may sometime not recover after it goes down with a local fault |                                                 |
| <b>Condition:</b> When Lockup condition on PHY occurs for a port on an 8x10G Line card module.                  |                                                 |
| <b>Recovery:</b> Only power cycle of the affected Line card module can recover the condition                    |                                                 |



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| <b>Defect ID:</b> DEFECT000563429                                                                                                           |                                                                          |
| <b>Technical Severity:</b> Medium                                                                                                           | <b>Probability:</b> Low                                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                          | <b>Technology Group:</b> Layer 3 Routing/Network Layer                   |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                      | <b>Technology:</b> VRRPv2 - Virtual Router Redundancy Protocol Version 2 |
| <b>Symptom:</b> Reachability issues if client interface is shutdown on both MCT peers and then enabled back on one of the MCT peers.        |                                                                          |
| <b>Condition:</b> This issue will happen only when the client-interface shutdown is done on both MCT peers and enabled back on one of them. |                                                                          |
| <b>Workaround:</b> Avoid shutting down clients on both MCT peers.                                                                           |                                                                          |
| <b>Recovery:</b> Enable client interfaces on both MCT peers and then the peers would be reachable.                                          |                                                                          |

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| <b>Defect ID:</b> DEFECT000563461                                                                                                                                                        |                                                                          |
| <b>Technical Severity:</b> High                                                                                                                                                          | <b>Probability:</b> Low                                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                       | <b>Technology Group:</b> Layer 3 Routing/Network Layer                   |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                   | <b>Technology:</b> VRRPv3 - Virtual Router Redundancy Protocol Version 3 |
| <b>Symptom:</b> Error messages "ITC_ERR_DEST_QUEUE_FULL" may be seen on the management module console, and some Line card modules reload automatically and do not come up again.         |                                                                          |
| <b>Condition:</b> This may happen if the system has a highly scaled configuration with a lot of VPLS VPorts, VRRP-e instances, ARP entries, and VPLS MAC address in the MCT environment. |                                                                          |
| <b>Recovery:</b> Reload the Line card modules one at a time.                                                                                                                             |                                                                          |

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| <b>Defect ID:</b> DEFECT000563527                                                                                                      |                                                 |
| <b>Technical Severity:</b> High                                                                                                        | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                     | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                 | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> With disable/enable of CCEP in MCT, BUM Traffic may get dropped intermittently (or loop) for LACP transition duration. |                                                 |
| <b>Condition:</b> MCT client flap.                                                                                                     |                                                 |
| <b>Workaround:</b> Issue recovers automatically in a few seconds, and this issue may be seen only during transition time.              |                                                 |

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| <b>Defect ID:</b> DEFECT000563742                                                                                    |                                       |
| <b>Technical Severity:</b> High                                                                                      | <b>Probability:</b> Medium            |
| <b>Product:</b> Brocade NetIron OS                                                                                   | <b>Technology Group:</b> Security     |
| <b>Reported In Release:</b> NI 05.8.00                                                                               | <b>Technology:</b> SSH - Secure Shell |
| <b>Symptom:</b> "Bad client version string" error is reported when backing up MLX configuration via SCP through BNA. |                                       |
| <b>Condition:</b> This error is seen only when SSH Client uses a version string that has more than 65 Characters.    |                                       |

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| <b>Defect ID:</b> DEFECT000563854                                                                        |                                                         |
| <b>Technical Severity:</b> Medium                                                                        | <b>Probability:</b> Low                                 |
| <b>Product:</b> Brocade NetIron OS                                                                       | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.4.00                                                                   | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> Some OSPF routes missing from the IP routing table                                       |                                                         |
| <b>Condition:</b> 1) CES/CER router running OSPF<br>2) The router 'uptime' has to be more than 1242 days |                                                         |

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| <b>Defect ID:</b> DEFECT000563862                                                                                                |                                                             |
| <b>Technical Severity:</b> Medium                                                                                                | <b>Probability:</b> Low                                     |
| <b>Product:</b> Brocade NetIron OS                                                                                               | <b>Technology Group:</b> MPLS                               |
| <b>Reported In Release:</b> NI 05.7.00                                                                                           | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> Same VLAN is reported as Source and Destination in sFlow records when "vll-local" or "vpls-local" is configured. |                                                             |
| <b>Condition:</b> This behavior is seen in BR-MLX-10Gx24-DM module.                                                              |                                                             |

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| <b>Defect ID:</b> DEFECT000564056                                                                                                      |                                                              |
| <b>Technical Severity:</b> Medium                                                                                                      | <b>Probability:</b> High                                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                     | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                 | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> SNMP GET query returns for unsupported objects "no such instance currently exists".                                    |                                                              |
| <b>Condition:</b> When 'snmpget' is performed on unsupported objects, it returns "no such instance" instead of returning "deprecated". |                                                              |
| <b>Workaround:</b> These objects are not supported.                                                                                    |                                                              |

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| <b>Defect ID:</b> DEFECT000564065                                                                                                                                                 |                                                               |
| <b>Technical Severity:</b> Low                                                                                                                                                    | <b>Probability:</b> Medium                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                            | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> The port name on a LAG port may not be displayed when executing command 'show run interface'. The port name is displayed when executing command 'show interface'. |                                                               |
| <b>Condition:</b> Port should be a member of a LAG port.                                                                                                                          |                                                               |

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| <b>Defect ID:</b> DEFECT000564079                                                                                                                 |                                                |
| <b>Technical Severity:</b> Medium                                                                                                                 | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                            | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Show resources indicates HW mac table usage is relentlessly increasing. MAC table size increases about 1 to 2% a day.             |                                                |
| <b>Condition:</b> The issue happens with VPLS over MCT on CER platform, when there are VPLS instance flaps in the network, causing MAC CAM leaks. |                                                |

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| <b>Defect ID:</b> DEFECT000564081                                                                                                                                                          |                                                               |
| <b>Technical Severity:</b> Low                                                                                                                                                             | <b>Probability:</b> High                                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                         | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                     | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> When executing command 'show tech', in the following line the output contains a misspelling "statistics" instead of statistics:<br>BEGIN: ipc show statistics[second time] |                                                               |
| <b>Condition:</b> Appears when executing 'show tech' command.                                                                                                                              |                                                               |

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| <b>Defect ID:</b> DEFECT000564264                                                                                                                                |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                           | <b>Technology:</b> Static Routing (IPv4)               |
| <b>Symptom:</b> After upgrade from 5600f to 5800b image, config of all vrfs with max-route configured to any value above 'system-max ip-vrf-route" gets deleted. |                                                        |
| <b>Condition:</b> Upgrading to 5800b.                                                                                                                            |                                                        |

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| <b>Defect ID:</b> DEFECT000564299                                                                                            |                                                               |
| <b>Technical Severity:</b> Low                                                                                               | <b>Probability:</b> Low                                       |
| <b>Product:</b> Brocade NetIron OS                                                                                           | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.7.00                                                                                       | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> Complete traffic drop in egress TM on 20x10 module can be observed. This problem was seen in R5.7            |                                                               |
| <b>Condition:</b> Complete traffic drop in egress TM on 20x10 module can be observed in case of flow control from egress XPP |                                                               |

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| <b>Defect ID:</b> DEFECT000564387                                                                                                                                |                                                   |
| <b>Technical Severity:</b> Medium                                                                                                                                | <b>Probability:</b> Medium                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                               | <b>Technology Group:</b> MPLS                     |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                           | <b>Technology:</b> MPLS VLL - Virtual Leased Line |
| <b>Symptom:</b> In CER/CES devices, CVLAN tag disappears over a VLL that is operating in Raw-mode for IPv4 packets.                                              |                                                   |
| <b>Condition:</b> This behavior is observed when VLL raw mode with untagged endpoints and CVLAN tag type(ex:0x8100) is different from port tag type (ex: 0x9100) |                                                   |
| <b>Workaround:</b> Use VPLS or VLL tagged mode with tagged endpoints.                                                                                            |                                                   |

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| <b>Defect ID:</b> DEFECT000564534                                                                                |                                           |
| <b>Technical Severity:</b> High                                                                                  | <b>Probability:</b> High                  |
| <b>Product:</b> Brocade NetIron OS                                                                               | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.9.00                                                                           | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Extra multicast traffic may be forwarded on the port that is not the part of outgoing interface. |                                           |
| <b>Condition:</b> Hitless reload of the device without enabling nonstop routing.                                 |                                           |
| <b>Workaround:</b> Perform switchover command when nonstop routing is not enabled.                               |                                           |
| <b>Recovery:</b> Execute "clear ip pim mc" to clear the entries.                                                 |                                           |

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| <b>Defect ID:</b> DEFECT000564675                                                                                        |                                                        |
| <b>Technical Severity:</b> High                                                                                          | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                       | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                                                   | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> 'show tech l4 pbr' output may not display the entire UDA PBR configuration.                              |                                                        |
| <b>Condition:</b> UDA PBR route map must be configured. This does not have any functional impact on the UDA PBR feature. |                                                        |
| <b>Workaround:</b> Use command "show pbr inter ethernet <port>"                                                          |                                                        |

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| <b>Defect ID:</b> DEFECT000565193                                                                                                                                                                                                                                                      |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                      | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                     | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                 | <b>Technology:</b> ARP - Address Resolution Protocol   |
| <b>Symptom:</b> Traffic loss and Line card Module reset with Traffic Manager errors.                                                                                                                                                                                                   |                                                        |
| <b>Condition:</b> Following logs will be observed in sys log.<br>Jun 12 06:43:43:N:System: Module down in slot 4, reason<br>CARD_DOWN_REASON_POWERED_OFF_SYS_MONITOR. Error Code 0<br>Jun 12 06:43:43:D:System: TM errors detected in slot 4 ppcr 0 Reg Offset 00002980 Value 00000004 |                                                        |

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| <b>Defect ID:</b> DEFECT000565259                                                                                                                                                                                     |                                                                |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                     | <b>Probability:</b> High                                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                    | <b>Technology Group:</b> Layer 3 Routing/Network Layer         |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                | <b>Technology:</b> BFD - BiDirectional Forwarding<br>Detection |
| <b>Symptom:</b> BFD session at both ends may remain in DOWN state, when an LSP is configured with a detour path and low BFD timer values less than the default values, and when the LSP egress interface is disabled. |                                                                |
| <b>Condition:</b> This may occur due to certain timing scenarios where the BFD packets order causes the LSP ingress to not process the packets correctly.                                                             |                                                                |

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| <b>Defect ID:</b> DEFECT000565346                                                                    |                                        |
| <b>Technical Severity:</b> High                                                                      | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                   | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                               | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> Clear IPsec SA of an IPsec tunnel may bring down the IKE SA also in a scaled set up. |                                        |
| <b>Condition:</b> Execute 'clear ipsec sa' command                                                   |                                        |
| <b>Recovery:</b> Systems recovers on its own.                                                        |                                        |

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| <b>Defect ID:</b> DEFECT000565392                                                             |                                               |
| <b>Technical Severity:</b> High                                                               | <b>Probability:</b> Low                       |
| <b>Product:</b> Brocade NetIron OS                                                            | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                                        | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> CPU usage on a Line card module may go high after a Hitless software upgrade. |                                               |
| <b>Condition:</b> Hitless upgrade.                                                            |                                               |
| <b>Recovery:</b> System recovers after some time.                                             |                                               |

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| <b>Defect ID:</b> DEFECT000565398                                                                                                                                                           |                              |
| <b>Technical Severity:</b> High                                                                                                                                                             | <b>Probability:</b> High     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                          | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                      | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> "show openflow flow" output may display as generic flow hardware entry consumed even after all the flows are deleted thus unable to create more flows.                      |                              |
| <b>Condition:</b> After adding MPLS label match generic flow, when any of the ports is enabled for OpenFlow hardware entries are consumed incorrectly as per "show openflow flows" counter. |                              |
| <b>Workaround:</b> Avoid enabling OpenFlow on ports after installing MPLS label match flows.                                                                                                |                              |

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| <b>Defect ID:</b> DEFECT000565403                                                                                                                                 |                                                             |
| <b>Technical Severity:</b> High                                                                                                                                   | <b>Probability:</b> High                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                | <b>Technology Group:</b> MPLS                               |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                            | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> Management module may unexpectedly reload when "no router mpls" command is executed.                                                              |                                                             |
| <b>Condition:</b> Router has MPLS configurations in the node with standby MP up.<br>There must be at least one LSP in the process to be synced to the standby MP. |                                                             |

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| <b>Defect ID:</b> DEFECT000565713                                                                                             |                                        |
| <b>Technical Severity:</b> High                                                                                               | <b>Probability:</b> Low                |
| <b>Product:</b> Brocade NetIron OS                                                                                            | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                        | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> Some of the IPSec Tunnels using manual certification authentication may take longer than expected to come up. |                                        |
| <b>Condition:</b> Hitless upgrade                                                                                             |                                        |
| <b>Workaround:</b> 1. Use other authentication method.<br>2. Clear/reset the affected tunnels.                                |                                        |
| <b>Recovery:</b> Reset/clear the affected tunnel                                                                              |                                        |

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| <b>Defect ID:</b> DEFECT000565828                                                                                    |                                     |
| <b>Technical Severity:</b> Medium                                                                                    | <b>Probability:</b> Medium          |
| <b>Product:</b> Brocade NetIron OS                                                                                   | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.7.00                                                                               | <b>Technology:</b> Telemetry        |
| <b>Symptom:</b> Unable to mirror PBR next-hop invalid packets                                                        |                                     |
| <b>Condition:</b> 1) Mirroring enabled on the port<br>2) PBR next hop rule should be invalid for the affected stream |                                     |

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| <b>Defect ID:</b> DEFECT000565966                                                                                                   |                                        |
| <b>Technical Severity:</b> High                                                                                                     | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                  | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                              | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> IPSec Line card module reload may be seen.                                                                          |                                        |
| <b>Condition:</b> If same tunnel source and destination addresses are configured for multiple IPSec tunnels.                        |                                        |
| <b>Workaround:</b> Avoid using the same source and destination addresses for multiple tunnels. This configuration is not supported. |                                        |

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| <b>Defect ID:</b> DEFECT000566294                                                                                                                                                                                                                                                                                                                                                   |                                                               |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                   | <b>Probability:</b> High                                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                  | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                              | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> When tm-voq collection feature is disabled, 'show tm-voq-stat' command should not show voq statistics. But, only for option 'show tm-voq-stat src-port' the statistics is shown even though the feature is disabled. This has been fixed.<br>After fix, when tm-voq stats collection feature is disabled, it will throw error for all 'show tm-voq-stats' commands. |                                                               |
| <b>Condition:</b> This bug was introduced in coding for all sub options of 'show tm-voq-stat' command (queue-drops, dst-port, max-queue-depth, dst-lag), error message will be thrown when the feature is disabled. But for 'src-port' sub option alone, this validation was not added. This has been fixed.                                                                        |                                                               |

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| <b>Defect ID:</b> DEFECT000566312                                                                                                                                                                        |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                          | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                       | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                   | <b>Technology:</b> GRE - Generic Routing Encapsulation |
| <b>Symptom:</b> Line card Module having GRE tunnel end point may unexpectedly reset.                                                                                                                     |                                                        |
| <b>Condition:</b> 1. GRE tunnel should be configured.<br>2. GRE recursive routing should happen<br>3. Incoming traffic MTU should be more than MTU size of GRE tunnel and hence result in fragmentation. |                                                        |
| <b>Workaround:</b> Add a static route towards the GRE tunnel end point to prevent the recursive routing.                                                                                                 |                                                        |

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| <b>Defect ID:</b> DEFECT000566498                                                                   |                                               |
| <b>Technical Severity:</b> High                                                                     | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                  | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                                              | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> IPsec log observed is success irrespective of EC key pair generation failed/passed. |                                               |
| <b>Condition:</b> EC key generation should fail.                                                    |                                               |

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| <b>Defect ID:</b> DEFECT000566879                                                             |                                                |
| <b>Technical Severity:</b> High                                                               | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                            | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.7.00                                                        | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Intermittent high latency is observed for traffic such as Ping/TFTP/SSH       |                                                |
| <b>Condition:</b> This is seen when acl-accounting is enabled for more than 10,000 ACL rules. |                                                |

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| <b>Defect ID:</b> DEFECT000566985                                                                                                                                                                                                                              |                                                    |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                              | <b>Probability:</b> Medium                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                             | <b>Technology Group:</b> Management                |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                                                                                                                                         | <b>Technology:</b> Software Installation & Upgrade |
| <b>Symptom:</b> After an upgrade or downgrade, some Switch Fabric Modules (SFMs) fail to boot up and go to a powered off state on an MLX-32 with MR1 cards.                                                                                                    |                                                    |
| <b>Condition:</b> During code upgrade or downgrade with SBRIDGE image copied through "manifest copy" command. Sometimes, SBRIDGE image is not copied properly to some of the Switch Fabric Modules (SFMs) even though the manifest copy command is successful. |                                                    |

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| <b>Defect ID:</b> DEFECT000567391                                                                                        |                                                        |
| <b>Technical Severity:</b> High                                                                                          | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                       | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                                                   | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Salt value associated with the IPSec encryption key may be displayed as zero.                            |                                                        |
| <b>Condition:</b> May be seen when AES-GCM-128 algorithm is used for encryption/decryption of packets over IPSec tunnel. |                                                        |

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| <b>Defect ID:</b> DEFECT000567447                                                                                                                     |                              |
| <b>Technical Severity:</b> Medium                                                                                                                     | <b>Probability:</b> High     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                    | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> Traffic loss for High priority Open Flow rule may be seen while applying Low priority Open flow rule with the same matching criteria. |                              |
| <b>Condition:</b> When installing a lower priority flow with higher priority flows present, when no gaps are available in the HW CAM.                 |                              |

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| <b>Defect ID:</b> DEFECT000567625                                                                                                                                                                                     |                                               |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                     | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                    | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> Link remains UP and traffic passes through even though Auto Negotiation settings on 20x10G Line card Module port does not match with the remote end.                                                  |                                               |
| <b>Condition:</b> 1) Auto Negotiation should be enabled on 20x10G Line card Module port as well as its remote end<br>2) Port should be UP on both ends<br>3) Disable Auto Negotiation on 20x10G Line card Module port |                                               |

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| <b>Defect ID:</b> DEFECT000568041                                                                                                                                                                                         |                                                              |
| <b>Technical Severity:</b> High                                                                                                                                                                                           | <b>Probability:</b> Low                                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                        | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                    | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> Warning message similar to the one mentioned below is reported in optical monitoring when doing SNMP walk: -<br>OPTICAL MONITORING: port 5/3 (4x40), failed to read latched flags when snmp polling occur |                                                              |
| <b>Condition:</b> When doing continuous SNMP polling on the following optic related OID's.<br>snIfOpticalMonitoringInfoTable (brcdIp.1.1.3.3.6)<br>snIfOpticalLaneMonitoringTable (brcdIp.1.1.3.3.10)                     |                                                              |
| <b>Workaround:</b> Increase the SNMP polling intervals.                                                                                                                                                                   |                                                              |

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| <b>Defect ID:</b> DEFECT000568140                                                           |                                     |
| <b>Technical Severity:</b> Medium                                                           | <b>Probability:</b> Medium          |
| <b>Product:</b> Brocade NetIron OS                                                          | <b>Technology Group:</b> Management |
| <b>Reported In Release:</b> NI 05.6.00                                                      | <b>Technology:</b> Licensing        |
| <b>Symptom:</b> Unexpected reload of Management module when copying license file.           |                                     |
| <b>Condition:</b> Copying of license file with file size 0 (empty file) through Tftp://ftp/ |                                     |

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| <b>Defect ID:</b> DEFECT000568638                                                                                                                               |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                               | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                              | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                          | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Link goes down without any fault notification on 2x100G-CFP2, 20x10G and 4x10G-IPSEC line cards                                                 |                                        |
| <b>Condition:</b> For a 2x100G-CFP2/20x10G/4x10G-IPSEC line card port, local fault is not detected but remote end connected to these ports detects remote fault |                                        |

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| <b>Defect ID:</b> DEFECT000569107                                                                                                                                                                                                                                                                                                        |                                            |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                        | <b>Probability:</b> High                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                       | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                   | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> By default, VLAN state of port is untagged in VLAN1. When OpenFlow hybrid feature is enabled on port, it is allowed to remove the untagged component of the port from VLAN1. When OpenFlow is disabled the ports did not revert to untagged state and would not allow user to configure it as untagged port on any VLAN. |                                            |
| <b>Condition:</b> OpenFlow configuration.                                                                                                                                                                                                                                                                                                |                                            |

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| <b>Defect ID:</b> DEFECT000569387                                                                                                                                  |                                                |
| <b>Technical Severity:</b> Medium                                                                                                                                  | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                 | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                             | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Unexpected traffic loss when a Layer 2 ACL is bound to an interface with the intention of filtering based on ethertype value and priority-mapping. |                                                |
| <b>Condition:</b> Layer 2 ACL with rule to match based on ethertype value configured as hexadecimal number and also priority-mapping value.                        |                                                |

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| <b>Defect ID:</b> DEFECT000569396                                                                                                                                                                                               |                                                |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                               | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                              | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                          | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> User isn't allowed to add a L2 ACL rule which contains ethertype hexadecimal value 00008902 with priority or priority-force options.                                                                            |                                                |
| <b>Condition:</b> When user tries to configure a L2ACL rule with ethertype hexadecimal value 00008902 with priority or priority-force option, an error message is displayed and the rule doesn't get added to the L2 ACL table. |                                                |

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| <b>Defect ID:</b> DEFECT000569416                                                                                                                                                      |                                                |
| <b>Technical Severity:</b> Medium                                                                                                                                                      | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                     | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                 | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> System will not be able to add rule with protocol number as 58 if rule with protocol as ICMP is already configured in ipv6 filter and when duplicate-check is enabled. |                                                |
| <b>Condition:</b> Configure ipv6 filter with protocol as ICMP and enable duplicate-check. Then try to configure new rule with protocol number as 58.                                   |                                                |



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| <b>Defect ID:</b> DEFECT000569740                                            |                                               |
| <b>Technical Severity:</b> High                                              | <b>Probability:</b> Medium                    |
| <b>Product:</b> Brocade NetIron OS                                           | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.6.00                                       | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> TIME-STAMP shows negative value in show tech-support output. |                                               |
| <b>Condition:</b> The system up time is 248 days or above.                   |                                               |

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| <b>Defect ID:</b> DEFECT000569791                                                     |                                        |
| <b>Technical Severity:</b> High                                                       | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                    | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> Crypto key generation config will be lost after reload of the router. |                                        |
| <b>Condition:</b> If duplicate crypto key label names are allowed.                    |                                        |

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| <b>Defect ID:</b> DEFECT000570174                                                                                                           |                                        |
| <b>Technical Severity:</b> High                                                                                                             | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                                          | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                      | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> IPsec tunnel comes up when the ESP algorithm is AES-GCM-256 and IKEv2 algorithm is AES-CBC-128.                             |                                        |
| <b>Condition:</b> Configure IKEv2 algorithm as AES-CBC-128 and ESP algorithm as AES-GCM-256. IPsec tunnel should not be allowed to come up. |                                        |

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| <b>Defect ID:</b> DEFECT000570194                                                           |                                     |
| <b>Technical Severity:</b> High                                                             | <b>Probability:</b> High            |
| <b>Product:</b> Brocade NetIron OS                                                          | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.6.00                                                      | <b>Technology:</b> sFlow            |
| <b>Symptom:</b> In CES/CER boxes, sFlow packet sampling may stop working                    |                                     |
| <b>Condition:</b> When IP receive ACL is configured sFlow packet sampling may stop working. |                                     |

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| <b>Defect ID:</b> DEFECT000570596                                                                                                                    |                                            |
| <b>Technical Severity:</b> Medium                                                                                                                    | <b>Probability:</b> Low                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                   | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                               | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> CER/CES devices may not properly flood broadcast/unknown unicast/multicast frames                                                    |                                            |
| <b>Condition:</b> Conflict between global and interface route-only/no route-only configuration on a dual mode / tagged interface.                    |                                            |
| <b>Workaround:</b> For VLAN tagged ports ensure route-only/no route-only configuration on interface level is the same as global level configuration. |                                            |
| <b>Recovery:</b> Change the interface level route-only/no route-only configuration for VLAN tagged ports to match the global level configuration.    |                                            |

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| <b>Defect ID:</b> DEFECT000570706                                                                                                                      |                                                           |
| <b>Technical Severity:</b> High                                                                                                                        | <b>Probability:</b> High                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                     | <b>Technology Group:</b> Layer 3 Routing/Network Layer    |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                 | <b>Technology:</b> OSPFv3 - IPv6 Open Shortest Path First |
| <b>Symptom:</b> Router shows incorrect OSPFv3 Area Border Router status and can unexpectedly reload after the last virtual link is removed from OSPFv3 |                                                           |
| <b>Condition:</b> When the last virtual link is removed from OSPFv3 and if no backbone area exists.                                                    |                                                           |
| <b>Workaround:</b> Configure a backbone area.                                                                                                          |                                                           |

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| <b>Defect ID:</b> DEFECT000570755                                                                                                                                                                                                                                                                        |                                                    |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                      | <b>Probability:</b> Medium                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                       | <b>Technology Group:</b> Management                |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                   | <b>Technology:</b> Software Installation & Upgrade |
| <b>Symptom:</b> TFTP copy of NI 6.0 Management Module image fails with below error message:<br>"Download to primary flash failed - TFTP: downgrade below v5.2 not allowed"                                                                                                                               |                                                    |
| <b>Condition:</b> (1) TFTP copy of Management Module image for upgrade from NI 5.3 and above to NI 6.0<br>(2) Presence of MR2 Module                                                                                                                                                                     |                                                    |
| <b>Workaround:</b> (1) Enter OS/monitor mode on MP by pressing Ctrl+y, m<br>(2) Copy the individual application image of NI 6.0 in monitor mode<br>e.g., "copy tftp flash <ip_address> xmr06000b016.bin primary"<br>(3) Reload the router<br>(4) Then upgrade the other images, or run manifest upgrade. |                                                    |

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| <b>Defect ID:</b> DEFECT000570849                                                                                                                                                                                                                                                              |                                                |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                              | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                             | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                         | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> IPv6 Syslog message always displays the primary port even though the denied packet has arrived on the secondary port.                                                                                                                                                          |                                                |
| <b>Condition:</b> This behavior is seen when "enable-deny-logging" is enabled on the LAG or VE associated with the LAG and "deny" filter with "log" option is enabled in the ACL. In the presence of such a configuration, packets that get denied should arrive on the secondary port of LAG. |                                                |

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| <b>Defect ID:</b> DEFECT000570890                                                                                   |                                                     |
| <b>Technical Severity:</b> High                                                                                     | <b>Probability:</b> High                            |
| <b>Product:</b> Brocade NetIron OS                                                                                  | <b>Technology Group:</b> Security                   |
| <b>Reported In Release:</b> NI 06.0.00                                                                              | <b>Technology:</b> 802.1x Port-based Authentication |
| <b>Symptom:</b> Management module may unexpectedly reload when processing access accept message from RADIUS server. |                                                     |
| <b>Condition:</b> Reception of access accept message from RADIUS server.                                            |                                                     |

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| <b>Defect ID:</b> DEFECT000571002                                                                                                                |                                              |
| <b>Technical Severity:</b> Medium                                                                                                                | <b>Probability:</b> Medium                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                               | <b>Technology Group:</b> Traffic Management  |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                           | <b>Technology:</b> Rate Limiting and Shaping |
| <b>Symptom:</b> Line card module may unexpectedly reload when "clear rate-limit counters bum" is executed on the Line card module.               |                                              |
| <b>Condition:</b> Issuing command "clear rate-limit counters bum" on the Line card module.                                                       |                                              |
| <b>Workaround:</b> Specifically mentioning port number and corresponding VLAN ID.<br>"clear rate-limit counters bum-drop port-id x/y vlan-id z". |                                              |

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| <b>Defect ID:</b> DEFECT000571038                                                                                                                                                                                                                                                                          |                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                            | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                         | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                     | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Changes in the auto-negotiation options done when the port is in 10G mode is not getting applied when the port speed is changed to 1G later on.                                                                                                                                            |                                        |
| <b>Condition:</b> This happens in the following scenario:<br>- Applicable for 20x10GE and 4x10GE-IPSEC line cards.<br>- Port is in 10G speed and auto-negotiation configurations are not relevant.<br>- Change the auto-negotiation options.<br>- Change the port speed to 1G by changing the transceiver. |                                        |
| <b>Workaround:</b> Change the auto-negotiation options only when port speed is 1G.                                                                                                                                                                                                                         |                                        |

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| <b>Defect ID:</b> DEFECT000571042                                                                                                         |                                                    |
| <b>Technical Severity:</b> High                                                                                                           | <b>Probability:</b> Medium                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                        | <b>Technology Group:</b> Layer 2 Switching         |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                    | <b>Technology:</b> RFN - Remote Fault Notification |
| <b>Symptom:</b> For 20x10G ports, link-fault-signaling is not working after reload.                                                       |                                                    |
| <b>Condition:</b> 1) link-fault-signaling configured on 20x10G ports.<br>2) Reload OR Power OFF, Power ON of the 20x10G Line card Module. |                                                    |
| <b>Recovery:</b> Removing and re-configuring link-fault-signaling on 20x10G ports.                                                        |                                                    |

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| <b>Defect ID:</b> DEFECT000571357                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Probability:</b> High                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> Traffic Management  |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Technology:</b> Rate Limiting and Shaping |
| <b>Symptom:</b> After rate-limit is applied on an interface, if CIR value is changed to a value higher than the line rate for that interface, the configuration change will be accepted and the CIR value will be adjusted internally to the maximum line rate. But this causes 2 issues.<br>1. "no rate-limit" command will be rejected with the error message - "Error: Maximum burst is more than maximum port rate".<br>2. After reload, the configuration application will fail. |                                              |
| <b>Condition:</b> Apply rate-limit on an interface and then modify the CIR value higher than the line rate for that interface                                                                                                                                                                                                                                                                                                                                                         |                                              |
| <b>Workaround:</b> Ensure that the CIR value being configured in the "rate-limit" command is lower than the line rate for that interface                                                                                                                                                                                                                                                                                                                                              |                                              |
| <b>Recovery:</b> To recover after reload, re-apply the rate-limit configuration on the interface.                                                                                                                                                                                                                                                                                                                                                                                     |                                              |

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| <b>Defect ID:</b> DEFECT000571407                                                                 |                                           |
| <b>Technical Severity:</b> Medium                                                                 | <b>Probability:</b> Low                   |
| <b>Product:</b> Brocade NetIron OS                                                                | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.8.00                                                            | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> On CER-RT, traffic may not be forwarded to 10G ports/OIFs for a multicast group.  |                                           |
| <b>Condition:</b> Seen only on CER-RT, when the OIFs included ports from both PPCRs of 10G ports. |                                           |
| <b>Workaround:</b> Issue will not be seen if all OIFs for a given group are on the same PPCR.     |                                           |

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| <b>Defect ID:</b> DEFECT000571646                                                                                                                                                    |                                                         |
| <b>Technical Severity:</b> High                                                                                                                                                      | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                   | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                               | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> Invalid routes may be seen in route table when inter VRF route leaking is configured.                                                                                |                                                         |
| <b>Condition:</b> When inter vrf route leak is configured and route table changes in quick succession then routes which should be deleted may be left un-deleted in VRF route table. |                                                         |
| <b>Recovery:</b> Issue 'clear ip route vrf vrf-name prefix' to remove invalid routes.                                                                                                |                                                         |

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| <b>Defect ID:</b> DEFECT000571735                                                                                   |                                                |
| <b>Technical Severity:</b> High                                                                                     | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                  | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.7.00                                                                              | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Command "show access-list accounting ethernet <> in rate-limit" does not show counters incrementing |                                                |
| <b>Condition:</b> When MAC ACLs are configured and rate limiting based on MAC ACLs is applied on the interface      |                                                |

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| <b>Defect ID:</b> DEFECT000571931                                                                                                                                                                    |                                                         |
| <b>Technical Severity:</b> High                                                                                                                                                                      | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                   | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                               | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> The Management module may unexpectedly reload in OSPF task during boot.                                                                                                              |                                                         |
| <b>Condition:</b> (1) Device should be configured as NSSA ASBR/ABR.<br>(2) Should have at least 3 NSSA areas configured.<br>(3) Should redistribute an external destination into various NSSA areas. |                                                         |

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| <b>Defect ID:</b> DEFECT000571998                                        |                                                        |
| <b>Technical Severity:</b> High                                          | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                       | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                   | <b>Technology:</b> IPv6 Addressing                     |
| <b>Symptom:</b> High CPU utilization resulting in packet loss.           |                                                        |
| <b>Condition:</b> Configuration of "ipv6 nd local-proxy" on an MCT peer. |                                                        |

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| <b>Defect ID:</b> DEFECT000572323                                                            |                                        |
| <b>Technical Severity:</b> Medium                                                            | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                           | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.4.00                                                       | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> The remote end of a link shows as UP even though the local port is disabled. |                                        |
| <b>Condition:</b> An incompatible transceiver is inserted in a port of any Line card module. |                                        |

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| <b>Defect ID:</b> DEFECT000572378                                                                     |                                               |
| <b>Technical Severity:</b> Medium                                                                     | <b>Probability:</b> Medium                    |
| <b>Product:</b> Brocade NetIron OS                                                                    | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.8.00                                                                | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> In CES/CER, memory usage may reach up to 99% after configuring the system-max values. |                                               |
| <b>Condition:</b> When large system-max values are configured in CES/CER.                             |                                               |

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| <b>Defect ID:</b> DEFECT000572411                                                                                                                      |                                                                          |
| <b>Technical Severity:</b> Medium                                                                                                                      | <b>Probability:</b> High                                                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                                     | <b>Technology Group:</b> Layer 3 Routing/Network Layer                   |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                 | <b>Technology:</b> VRRPv2 - Virtual Router Redundancy Protocol Version 2 |
| <b>Symptom:</b> Running configuration output may incorrectly display the command "privilege vrrp-router level 5 enable" as "privilege level 5 enable". |                                                                          |
| <b>Condition:</b> Configure the command, "privilege vrrp-router level x".                                                                              |                                                                          |

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| <b>Defect ID:</b> DEFECT000572552                                            |                                 |
| <b>Technical Severity:</b> Medium                                            | <b>Probability:</b> Low         |
| <b>Product:</b> Brocade NetIron OS                                           | <b>Technology Group:</b> MPLS   |
| <b>Reported In Release:</b> NI 05.5.00                                       | <b>Technology:</b> BGP/MPLS VPN |
| <b>Symptom:</b> Traffic destined to one of the VRF's is dropped in L3VPN.    |                                 |
| <b>Condition:</b> L3VPN needs to be configured on CER/CES which act as a PE. |                                 |

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| <b>Defect ID:</b> DEFECT000572675                                                                                                                                                                                                                                |                                                  |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                | <b>Probability:</b> Medium                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                               | <b>Technology Group:</b> Security                |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                           | <b>Technology:</b> MAC Port-based Authentication |
| <b>Symptom:</b> On an interface that has PMS enabled and "violation restrict" configured, Violation Syslog message stops printing after 5 violations for the same MAC.                                                                                           |                                                  |
| <b>Condition:</b> PMS should be enabled on an interface and "violation restrict" configured. Interface should receive traffic from more MAC addresses than specified in the "maximum <value>" configuration.                                                     |                                                  |
| <p>Example Configuration is as below:</p> <pre>interface ethernet 3/1 enable port security enable violation restrict maximum 1</pre> <p>In the above sample configuration, a log will be generated when traffic from at least two MAC addresses is received.</p> |                                                  |

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| <b>Defect ID:</b> DEFECT000572720                                                                                                         |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                         | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                        | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                    | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> On Provider Edge device, BGP VRF routes learnt over IBGP neighbor are not advertised to BGP VPN address-family neighbors. |                                                        |
| <b>Condition:</b> When the CE BGP VRF neighbor is configured as IBGP session.                                                             |                                                        |
| <b>Workaround:</b> Change BGP VRF neighbors from IBGP session to EBGp session.                                                            |                                                        |

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| <b>Defect ID:</b> DEFECT000572729                                                                                                                                                                                                            |                                                |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                            | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                           | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                       | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> CLI allows application of an ACL to a physical interface, even when the number of rules contained in the ACL is larger than the L4 CAM space.<br>The operation is not rejected and there is no warning logged in the Syslog. |                                                |
| <b>Condition:</b> Number of rules in ACL clause is larger than the available L4 CAM space.                                                                                                                                                   |                                                |

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| <b>Defect ID:</b> DEFECT000572893                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b> Medium                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology Group:</b> Security                |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology:</b> MAC Port-based Authentication |
| <b>Symptom:</b> Unicast packets get flooded when aging interval expires for a secured port.                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |
| <b>Condition:</b> This issue is applicable only on CES/CER platform and happens when an aging interval is configured (as shown below) for a secured port.<br><br>Aging configured globally for all secured ports -<br>device(config)# global-port-security<br>device(config-global-port-security)# age 10<br><br>Aging configured for a specific port -<br>device(config)# interface ethernet 7/11<br>device(config-if-e100-7/11)# port security<br>device(config-port-security-e100-7/11)# age 10 |                                                  |

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| <b>Defect ID:</b> DEFECT000573138                                                         |                                            |
| <b>Technical Severity:</b> Medium                                                         | <b>Probability:</b> Medium                 |
| <b>Product:</b> Brocade NetIron OS                                                        | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.8.00                                                    | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> Broadcast packets are not flooded out of Uplink ports on CER/CES.         |                                            |
| <b>Condition:</b> Seen when CER/CES is rebooted with Uplink-switch configuration enabled. |                                            |
| <b>Recovery:</b> Un-configure and Re-Configure Uplink Switch configuration.               |                                            |

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| <b>Defect ID:</b> DEFECT000573303                                                                     |                                                        |
| <b>Technical Severity:</b> Critical                                                                   | <b>Probability:</b> Low                                |
| <b>Product:</b> Brocade NetIron OS                                                                    | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.4.00                                                                | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Line cards may reset unexpectedly or duplicate ARP entries may be seen in Line cards. |                                                        |
| <b>Condition:</b> When LAG primary port is frequently changed.                                        |                                                        |

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| <b>Defect ID:</b> DEFECT000573507                                                                                                                          |                                                        |
| <b>Technical Severity:</b> High                                                                                                                            | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                         | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                     | <b>Technology:</b> Multi-VRF                           |
| <b>Symptom:</b> Routes in a VRF lite instance not participating in L3VPN are still programmed in the L3VPN hardware table consuming VPN hardware resource. |                                                        |
| <b>Condition:</b> VRF lite configuration in the presence of L3VPN.                                                                                         |                                                        |

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| <b>Defect ID:</b> DEFECT000573533                                                                                          |                                                        |
| <b>Technical Severity:</b> Critical                                                                                        | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                         | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                     | <b>Technology:</b> Multi-VRF                           |
| <b>Symptom:</b> Line card reset may be seen when adding a new port to a VRF when the system has more than 500K VRF routes. |                                                        |
| <b>Condition:</b> When more than 500K VRF routes are learned and the first port is added into a VRF on a Line card.        |                                                        |

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| <b>Defect ID:</b> DEFECT000573707                                                                                  |                                     |
| <b>Technical Severity:</b> Medium                                                                                  | <b>Probability:</b> Medium          |
| <b>Product:</b> Brocade NetIron OS                                                                                 | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.8.00                                                                             | <b>Technology:</b> Sysmon           |
| <b>Symptom:</b> In "show sysmon config" command output, SLOTS column is blank for some of the monitoring features. |                                     |
| <b>Condition:</b> Issuing "show sysmon config" command.                                                            |                                     |

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| <b>Defect ID:</b> DEFECT000573788                                                                                                                                                                    |                                     |
| <b>Technical Severity:</b> Medium                                                                                                                                                                    | <b>Probability:</b> Low             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                   | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.2.00                                                                                                                                                               | <b>Technology:</b> Syslog           |
| <b>Symptom:</b> On CES/CER platform, timestamps in syslog output may become incorrect after system uptime passes 1242 days.<br><br>The syslog time stamp in one instance jumped to March from August |                                     |
| <b>Condition:</b> When the system uptime reaches 1242 days.                                                                                                                                          |                                     |
| <b>Recovery:</b> System can only be recovered by reloading the system                                                                                                                                |                                     |

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| <b>Defect ID:</b> DEFECT000574183                                                                                                                                                                                                                                                                                                                                                   |                                                 |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                     | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                  | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                              | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> L2 VPN MACs are out of sync between 2 MCT peers.<br>Error messages similar to the ones listed below scroll on the console -<br>Oct 16 01:20:37.205 Call Stack [Task l2vpn]: 0x202a9ffc 0x21529a5c 0x21529b0c 0x2147b898<br>0x2147bb5c 0x21486e00 0x21486ee0 0x21548888 0x21565348 0x215655f0<br>Oct 16 01:20:37.205 VPLS: ITC error while sending log, error code 8 |                                                 |
| <b>Condition:</b> Seen when an MCT peer reloaded on a setup with over 2000 VPLS instances, 100,000 VPLS MACs and corresponding scale.                                                                                                                                                                                                                                               |                                                 |
| <b>Recovery:</b> Force a re-sync by clearing the MACs of VPLS instances on the Active MCT peer, using the "clear mac vpls" command.                                                                                                                                                                                                                                                 |                                                 |

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| <b>Defect ID:</b> DEFECT000574490                                                            |                                                 |
| <b>Technical Severity:</b> High                                                              | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                           | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                       | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> CCEP port can go to forwarding state 1 second ahead of the configured delay. |                                                 |
| <b>Condition:</b> Bring down CCEP port<br>Bring CCEP port back UP.                           |                                                 |



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| <b>Defect ID:</b> DEFECT000574935                                                                                          |                                               |
| <b>Technical Severity:</b> High                                                                                            | <b>Probability:</b> Medium                    |
| <b>Product:</b> Brocade NetIron OS                                                                                         | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.4.00                                                                                     | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> Copying of configuration from PCMCIA to running configuration fails with "invalid input" message for ACLs. |                                               |
| <b>Condition:</b> Presence of ACL in the configuration stored in PCMCIA.                                                   |                                               |

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| <b>Defect ID:</b> DEFECT000575002                                                                                                 |                                                         |
| <b>Technical Severity:</b> High                                                                                                   | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.2.00                                                                                            | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> OSPF will see neighbors flap with md5 authentication failure.                                                     |                                                         |
| <b>Condition:</b> OSPF interface(s) should have md5 authentication enabled and the local router's 'uptime' has crossed 1242 days. |                                                         |

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| <b>Defect ID:</b> DEFECT000575072                                                                                                                                                                                                   |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                   | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                  | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                              | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Remote and local fault message in syslog could be associated with a number as below.<br>Oct 20 19:44:47:I:SYSTEM: port 4/2 is down( remote fault 1)<br>Oct 20 19:36:18:I:SYSTEM: port 6/16 is down( remote fault 3) |                                        |
| <b>Condition:</b> When local or remote fault is logged in syslog.                                                                                                                                                                   |                                        |
| Note: These numbers are used by the device for internal purposes and are not a cause for concern                                                                                                                                    |                                        |

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| <b>Defect ID:</b> DEFECT000575097                                                                                                                                         |                                        |
| <b>Technical Severity:</b> Critical                                                                                                                                       | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                        | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                    | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> IPsec tunnel between strongswan IPsec server and MLXe will not come up using certificate based signature.                                                 |                                        |
| <b>Condition:</b> If certificate based auth method is used between MLX and another vendor, the IPSEC tunnel will not come up because AUTH Payload was sent in DER format. |                                        |
| <b>Recovery:</b> Use PSK as auth method between MLX and another vendor.                                                                                                   |                                        |

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| <b>Defect ID:</b> DEFECT000575273                                                                                                                                                                                     |                                                 |
| <b>Technical Severity:</b> High                                                                                                                                                                                       | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                    | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> - "dir" command from the management card fails with the following error "error: File not found".<br>- "wr mem" command from the management card fails with the error - "Write startup-config failed". |                                                 |
| <b>Condition:</b> This issue may occur if "show tech-support" command is repeatedly executed through script.                                                                                                          |                                                 |
| <b>Recovery:</b> Reload of the router is the only recovery option                                                                                                                                                     |                                                 |

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| <b>Defect ID:</b> DEFECT000575349                                                                                                                                                                                                                                                                                                                                                                    |                                                    |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                    | <b>Probability:</b> Low                            |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology Group:</b> Management                |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                                                                                                                                                               | <b>Technology:</b> Software Installation & Upgrade |
| <b>Symptom:</b> Line card module goes to interactive state and "show module" command output displays any other reason code than "None" such as, "FPGA mismatch/monitor mismatch."                                                                                                                                                                                                                    |                                                    |
| <b>Condition:</b> 1) When any slot in the chassis has already reported a card interactive state with a reason code other than "None"<br>2) When any Line card module is put in the same slot and booted to interactive mode manually by the command "Ip boot sys interactive <slot-no>", the card will be moved to interactive with the old interactive reason, as "FPGA mismatch/monitor mismatch." |                                                    |
| Note: This is a display issue only.                                                                                                                                                                                                                                                                                                                                                                  |                                                    |

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| <b>Defect ID:</b> DEFECT000575361                                                                                                                                                          |                                             |
| <b>Technical Severity:</b> Medium                                                                                                                                                          | <b>Probability:</b> Medium                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                         | <b>Technology Group:</b> Traffic Management |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                     | <b>Technology:</b> QoS - Quality of Service |
| <b>Symptom:</b> LAG deployment will fail with following message: "QoS configuration mismatch between primary and secondary ports!"                                                         |                                             |
| <b>Condition:</b> One of the LAG member ports belongs to a Line card Module which is configured, but not physically inserted.                                                              |                                             |
| <b>Workaround:</b> Use command "qos multicast shaper best-effort/guaranteed rate" to apply primary port shaper values on the ports of the Line card Module that is not physically present. |                                             |
| "Note: Shaper values of the primary port can be obtained from "show qos multicast e x/y "                                                                                                  |                                             |

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| <b>Defect ID:</b> DEFECT000575599                               |                                                 |
| <b>Technical Severity:</b> High                                 | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                              | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 06.0.00                          | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> LAG flaps after Active to Standby MP switchover |                                                 |
| <b>Condition:</b> When Active to Standby MP switchover happens. |                                                 |

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| <b>Defect ID:</b> DEFECT000575718                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Probability:</b> Medium          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Technology:</b> Syslog           |
| <b>Symptom:</b> Port will flap once and if Link Fault Signaling is enabled it will report an incorrect local fault notification before it comes up. Messages similar to the following would be SYSLOGGED.<br><br>SYSLOG: <14>Oct 28 13:17:12 Router PORT: 3/1 enabled by operator from console session.<br><br>SYSLOG: <14>Oct 28 13:17:12 Router System: Interface ethernet 3/1, state up<br><br>SYSLOG: <14>Oct 28 13:17:13 Router SYSTEM: port 3/1 is down( local fault 1)<br><br>SYSLOG: <14>Oct 28 13:17:13 Router System: Interface ethernet 3/1, state down - local fault<br><br>SYSLOG: <14>Oct 28 13:17:13 Router System: Interface ethernet 3/1, state up |                                     |
| <b>Condition:</b> When an admin disabled port is enabled and the port has LR and ER range of QSFP28 and CFP2 optics.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |

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| <b>Defect ID:</b> DEFECT000575726                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Probability:</b> Medium          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology:</b> Syslog           |
| <b>Symptom:</b> Port will flap once and if Link Fault Signaling is enabled it will report an incorrect remote fault notification before it comes up. Messages similar to the following would be SYSLOGGED.<br><br>SYSLOG: <14>Oct 28 18:39:42 Router System: Interface ethernet 3/2, state up<br><br>SYSLOG: <14>Oct 28 18:39:55 Router SYSTEM: port 3/2 is down( remote fault 1)<br><br>SYSLOG: <14>Oct 28 18:39:55 Router System: Interface ethernet 3/2, state down - remote fault<br><br>SYSLOG: <14>Oct 28 18:39:55 Router System: Interface ethernet 3/2, state up |                                     |
| <b>Condition:</b> When a remote port that is admin disabled gets enabled and the port has LR and ER range of QSFP28 and CFP2 optics.                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |

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| <b>Defect ID:</b> DEFECT000575856                                                                                |                              |
| <b>Technical Severity:</b> High                                                                                  | <b>Probability:</b> Medium   |
| <b>Product:</b> Brocade NetIron OS                                                                               | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 05.8.00                                                                           | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> Unexpected system reload during OpenFlow 1.0 flow-stats request message processing.              |                              |
| <b>Condition:</b> OpenFlow 1.0 flow-stats request received with match condition that matches more than 10 flows. |                              |

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| <b>Defect ID:</b> DEFECT000575924                                                                                                                                                                              |                                                    |
| <b>Technical Severity:</b> Medium                                                                                                                                                                              | <b>Probability:</b> Medium                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                             | <b>Technology Group:</b> Management                |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                         | <b>Technology:</b> Software Installation & Upgrade |
| <b>Symptom:</b> Simplified image upgrade summary reports Line card Module monitor image installed on all Line card Modules successfully even though monitor image did not download to a few Line card Modules. |                                                    |
| <b>Condition:</b> Simplified image upgrade when LP CPU utilization is 10% or more                                                                                                                              |                                                    |
| <b>Recovery:</b> Perform the simplified image upgrade again after reducing the LP CPU utilization.                                                                                                             |                                                    |

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| <b>Defect ID:</b> DEFECT000575991                                                                                                                                                                |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                           | <b>Technology:</b> GRE - Generic Routing Encapsulation |
| <b>Symptom:</b> Traffic loss may be observed when GRE is used with PBR                                                                                                                           |                                                        |
| <b>Condition:</b> Packets which are processed by route-map/policy-map and have their next-hop set to GRE tunnel. The incoming packet's ingress MTU should be greater than the egress tunnel MTU. |                                                        |

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| <b>Defect ID:</b> DEFECT000576041                                                                                                                                                                                           |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                           | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                          | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                      | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> In CES/CER, MCT CCP state starts to flap indefinitely when "no client-interface shutdown" command option is enabled                                                                                         |                                                 |
| <b>Condition:</b> MCT L2VPN configured with default L2VPN keep-alive/hold-time                                                                                                                                              |                                                 |
| <b>Recovery:</b> On both ends of the MCT cluster, configure L2VPN keep-alive/hold-time to a minimum value of 600/1800 and then re-deploy the cluster.<br>Example:<br>"l2vpn-peer <ip> timers keep-alive 600 hold-time 1800" |                                                 |

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| <b>Defect ID:</b> DEFECT000576079                                                                  |                                        |
| <b>Technical Severity:</b> Medium                                                                  | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                 | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                             | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> IKE session does not come up when using a certificate for authentication.          |                                        |
| <b>Condition:</b> When using IKE AUTH method as ECDSA, sometimes the IKE session does not come up. |                                        |
| <b>Workaround:</b> Use Preshared key as IKE AUTH method to avoid this issue.                       |                                        |
| <b>Recovery:</b> Clear ike sa                                                                      |                                        |

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| <b>Defect ID:</b> DEFECT000576121                                              |                                                              |
| <b>Technical Severity:</b> High                                                | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                             | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.7.00                                         | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> SNMP Object "ifAlias" does not display any LSP information     |                                                              |
| <b>Condition:</b> 1) MPLS is enabled<br>2) LSP configuration should be present |                                                              |

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| <b>Defect ID:</b> DEFECT000576189                                                                                                                                                                                                               |                                                               |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                               | <b>Probability:</b> High                                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                              | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                          | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> After doing switch over, observed "fe_update_sync_err_handler:FE200: status = 7" and "Warn:rw_program_multicast_table_entry: Sync to standby MP failed for FE entry 26 (001a) (err = Timeout)" messages seen on different runs. |                                                               |
| <b>Condition:</b> During switchover on a fully loaded MLXe-32 chassis with all hSFMs and standby MP present.                                                                                                                                    |                                                               |

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| <b>Defect ID:</b> DEFECT000576198                                                                                                                                                                                                                                                                                                                                                   |                                            |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                   | <b>Probability:</b> High                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                  | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                              | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> ITC error messages seen on the console (with no functional impact) -<br>Error:hal_send_itc_request: itc_send_request() failed (ret = 8) app id 00000013<br>Oct 30 00:56:03.169 SAT Error: itc_rw2_fe600_serdes_config - itc_send_request() failed slot:25<br>itc_ret:8<br>Oct 30 00:56:03.169 The caller task: scp had an ITC_ERROR:8Oct 30 00:56:03.169 SAT Error: |                                            |
| <b>Condition:</b> These messages are seen after LP hot upgrade during Hitless Upgrade of an MLX/MLXe.                                                                                                                                                                                                                                                                               |                                            |

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| <b>Defect ID:</b> DEFECT000576238                                                                                                                                                                                                                                                            |                                                  |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                            | <b>Probability:</b> Low                          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                           | <b>Technology Group:</b> Security                |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                       | <b>Technology:</b> MAC Port-based Authentication |
| <b>Symptom:</b> Following two symptoms are seen in CER/CES.<br>1) With Port security configuration on a port, when there is MAC movement from Secure port to Non-secure port, packets are flooded.<br>2) When the same MAC address returns to the original Secure Port, packets get dropped. |                                                  |
| <b>Condition:</b> 1) Port security is configured on a port on CER/CES.<br>2) MAC movement happens between a secure port and a non secure port.                                                                                                                                               |                                                  |
| <b>Recovery:</b> Delete and add port security configuration again<br>(OR)<br>Delete the port security MAC address from running configuration.                                                                                                                                                |                                                  |

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| <b>Defect ID:</b> DEFECT000576302                                                                                                                                              |                                                 |
| <b>Technical Severity:</b> High                                                                                                                                                | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                             | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                         | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> MCT VPLS instances are down with the reason "wait for local functional ports", but the associated VPLS configured ports are up. There is no functional impact. |                                                 |
| <b>Condition:</b> Seen after executing "client-interface shut" followed by "no client-interface shut", "no deploy" and "deploy" of the client.                                 |                                                 |

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| <b>Defect ID:</b> DEFECT000576487                                                                                                                                 |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                 | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                            | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> After doing MCT Cluster "no deploy", the peer CCP is down with inappropriate reason "Invalid Application packet received message came from peer." |                                                 |
| <b>Condition:</b> MCT Cluster "no deploy"                                                                                                                         |                                                 |

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| <b>Defect ID:</b> DEFECT000576744                                                                                                                                                                                                                  |                                                                 |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                    | <b>Probability:</b> High                                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                 | <b>Technology Group:</b> Layer 3 Routing/Network Layer          |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                             | <b>Technology:</b> MBGP - Multiprotocol Border Gateway Protocol |
| <b>Symptom:</b> Upon modification of any VRF attributes like route-target or route-map VRF routes that were earlier not advertised to VPN neighbors would never be advertised even if the route-target or route-map allows for such advertisement. |                                                                 |
| <b>Condition:</b> When BGP VPN neighbor is established and local VRF routes are added before configuring export route target, and later export route target is added then VRF routes would not be advertised to BGP VPN neighbors.                 |                                                                 |
| <b>Workaround:</b> Always configure export route-target in VRF before learning adding/learning routes in VRF.                                                                                                                                      |                                                                 |
| <b>Recovery:</b> Add VRF export route-target and clear BGP VPNv4 session.                                                                                                                                                                          |                                                                 |

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| <b>Defect ID:</b> DEFECT000576778                                                                                                                                                                                                                      |                                               |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                      | <b>Probability:</b> Medium                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                     | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                 | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> Management module may reload unexpectedly or may switchover if standby management module is available. The stacktrace will show "EXCEPTION 0300, Data Storage Interrupt" at "Task: scp", but the "Possible Stack Trace" will be blank. |                                               |
| <b>Condition:</b> This issue is seen when disabling all the interfaces of a 20x10G Line card module.                                                                                                                                                   |                                               |

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| <b>Defect ID:</b> DEFECT000576811                                                                                                                                                                                        |                                                               |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                        | <b>Probability:</b> Medium                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                       | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                   | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> "flow-control rx-pause-ignore" command is not honored for 20x10G line card. Even with the command configured, unicast traffic will not be forwarded on 20x10G LP's ports when PAUSE frames are received. |                                                               |
| <b>Condition:</b> 1. The command "flow-control rx-pause-ignore" should be enabled on the interface.<br>2. 20x10G interface receives simple unicast traffic and pause frames                                              |                                                               |

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| <b>Defect ID:</b> DEFECT000576858                                                                                                             |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                             | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                            | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                        | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> CCR MACs on MCT L2VPN peer not learning as CCL MACs                                                                           |                                                 |
| <b>Condition:</b> When Spoke PW goes down between MCT L2VPN peers, the standby MCT L2VPN peer which becomes active does not learn MACs as CCL |                                                 |
| <b>Recovery:</b> clear mac vpls <>                                                                                                            |                                                 |

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| <b>Defect ID:</b> DEFECT000577024                                                                                         |                                     |
| <b>Technical Severity:</b> High                                                                                           | <b>Probability:</b> Medium          |
| <b>Product:</b> Brocade NetIron OS                                                                                        | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.8.00                                                                                    | <b>Technology:</b> Syslog           |
| <b>Symptom:</b> A port on the 20x10G module does not come up after the remote side flaps multiple times continuously.     |                                     |
| <b>Condition:</b> Seen only on the 20x10G module and with continuous flapping of remote side.                             |                                     |
| <b>Recovery:</b> Remove and reconnect fiber locally or disable and enable the port again manually at remote or local end. |                                     |

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| <b>Defect ID:</b> DEFECT000577049                                                                                                                                                                                                       |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                       | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                      | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                                                                                                                  | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Applying the “uplink-switch” command on a VLAN can cause high CPU on LPs when traffic flows on that VLAN                                                                                                                |                                                 |
| <b>Condition:</b> Happens when the VLAN for which “uplink-switch” is applied has been configured as a “member-vlan” for MCT.                                                                                                            |                                                 |
| <b>Workaround:</b> Step 1. Remove the VLAN from “member-vlan” configuration under MCT,<br>Step 2. Apply “uplink-switch” on the VLAN,<br>Step 3. Add the VLAN to the “member-vlan” configuration under MCT.                              |                                                 |
| <b>Recovery:</b> A “write mem” followed by a router reload is required to recover from the high CPU on LPs. If “uplink-switch” and “member-vlan” configurations are both present during reload, high CPU will not be seen after bootup. |                                                 |

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| <b>Defect ID:</b> DEFECT000577299                                                                                                                                                                                                                                                                                                                                                               |                                                        |
| <b>Technical Severity:</b> Low                                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                              | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                                          | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> The "no export-vrf-leaked-routes" command is accepted at BGP configuration level even though it should only be executed under a specific address family.<br>Router(config)#router bgp<br>Router(config-bgp)#local-as 100<br>Router(config-bgp)#no export-vrf-leaked-routes<br>No error message is printed and the configuration is accepted even though it will not take effect |                                                        |
| <b>Condition:</b> Configuring "no export-vrf-leaked-routes" command under "router bgp"                                                                                                                                                                                                                                                                                                          |                                                        |

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| <b>Defect ID:</b> DEFECT000577647                                                                                                                                |                                                 |
| <b>Technical Severity:</b> High                                                                                                                                  | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                               | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                           | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Traffic loss and VPLS MACs out of sync between MCT L2VPN cluster peer.                                                                           |                                                 |
| <b>Condition:</b> On CER platform, while executing "client-interface shutdown" and "no client-interface shutdown", the VPLS MACs are not synced to the MCT peer. |                                                 |

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| <b>Defect ID:</b> DEFECT000577665                                                                                                                                                      |                                                         |
| <b>Technical Severity:</b> Medium                                                                                                                                                      | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                     | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                 | <b>Technology:</b> BGP4+ - IPv6 Border Gateway Protocol |
| <b>Symptom:</b> BGP4+ session does not establish with the desired source IPv6 address and always uses the first IPv6 address as the source IPv6 address when establishing the session. |                                                         |
| <b>Condition:</b> Two IPv6 addresses are configured on the same subnet and interface, and BGP peering is configured on second IPv6 address.                                            |                                                         |
| <b>Workaround:</b> Under BGP configuration, use the "update source" command option to specify the desired source IPv6 address.                                                         |                                                         |

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| <b>Defect ID:</b> DEFECT000577739                                               |                                                 |
| <b>Technical Severity:</b> High                                                 | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                              | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                          | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> MCT CCP is kept in up state after doing "client-interface shut" |                                                 |
| <b>Condition:</b> Applying "client-interface shut" on CER-RT.                   |                                                 |

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| <b>Defect ID:</b> DEFECT000577946                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> 8x10G Line card module reports error similar to the following: -<br>AGERAM Word 1 Parity Error on port range 1/1 - 1/4.                                                                                                                                                                                                                                                                                                                                                                           |                                        |
| <b>Condition:</b> There are no specific triggers for these errors. The errors will be noticed from release NI 05.6.00 onwards when the NP memory error monitoring (Line Module memory error monitoring) feature is introduced.                                                                                                                                                                                                                                                                                    |                                        |
| <b>Workaround:</b> If these errors are not accompanied by traffic loss or issues in traffic forwarding, the frequency at which these errors are logged can be reduced by increasing the polling period of sysmon NP memory errors using the CLI command (from the CONFIG level),<br><br>"sysmon np memory-errors polling-period <polling-period in seconds>"<br><br>The default polling period is 60 seconds. It can be increased from the current default to a higher value, say 43200 seconds (every 12 hours). |                                        |

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| <b>Defect ID:</b> DEFECT000578003                                                                                       |                                                         |
| <b>Technical Severity:</b> Medium                                                                                       | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                      | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.9.00                                                                                  | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> OSPF Summary routes and external routes will not be calculated and populated in the OSPF routing table. |                                                         |
| <b>Condition:</b> This happens when OSPF ABR and ASBR routes are filtered using a distribute-list.                      |                                                         |

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| <b>Defect ID:</b> DEFECT000578059                                                                                                                                    |                                                         |
| <b>Technical Severity:</b> Critical                                                                                                                                  | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                   | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                               | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Multicast traffic loss maybe seen when multicast traffic is received on MCT CCEP port.                                                               |                                                         |
| <b>Condition:</b> When multicast traffic is incoming on a MCT CCEP port and the CCEP port flaps or goes down and traffic is moved on to other CCEP port on MCT peer. |                                                         |
| <b>Recovery:</b> clear ip pim mcache on MCT nodes.                                                                                                                   |                                                         |

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| <b>Defect ID:</b> DEFECT000578298                                                                      |                                        |
| <b>Technical Severity:</b> High                                                                        | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                     | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                                 | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> System reboot may be observed with IPsec configuration.                                |                                        |
| <b>Condition:</b> Issue may be observed when longer local identifier is specified under IKEv2 profile. |                                        |



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| <b>Defect ID:</b> DEFECT000578595                                        |                                                 |
| <b>Technical Severity:</b> Medium                                        | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                       | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                   | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Local VPLS MACs not aging out                            |                                                 |
| <b>Condition:</b> Disable multiple CCEP ports of MCT L2VPN at same time. |                                                 |

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| <b>Defect ID:</b> DEFECT000578904                                                                                                                                                                                                        |                                                             |
| <b>Technical Severity:</b> High                                                                                                                                                                                                          | <b>Probability:</b> Medium                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                       | <b>Technology Group:</b> Layer 3 Routing/Network Layer      |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                   | <b>Technology:</b> BFD - BiDirectional Forwarding Detection |
| <b>Symptom:</b> Neighboring nodes of CES/CER may report protocol flaps for time sensitive protocols like LACP, BFD and may not stabilize.                                                                                                |                                                             |
| <b>Condition:</b> The issue can occur when there are CES/CER nodes on the network that have many instances of protocols with short timeout values configured (BFD – 15+ sessions/500 msec timeout, LACP – 5 or more with short timeout). |                                                             |

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| <b>Defect ID:</b> DEFECT000579013                                                                                                                                                                                                                                              |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                              | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                             | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.1.00                                                                                                                                                                                                                                         | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Rolling-reboot is seen on CES/CER with cluster configuration.                                                                                                                                                                                                  |                                                 |
| <b>Condition:</b> 1) 2x10G card should be present and have cluster configuration (client-interface ethernet <slot/port>) on its interface(s)<br>2) 2x10G card should be removed from the node<br>3) Node should be reloaded<br><br>Note: Issue is specific to CES/CER platform |                                                 |
| <b>Workaround:</b> Before removing the 2x10G card, delete the associated cluster configuration (client-interface ethernet <slot/port>").                                                                                                                                       |                                                 |
| <b>Recovery:</b> On boot up, press "b" to enter Monitor mode. Upload the startup config using TFTP.<br>Edit the configuration to remove the command "client-interface ethernet <slot/port>".<br>Download the startup configuration using Tftp://ftp./<br>Reboot the box again. |                                                 |

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| <b>Defect ID:</b> DEFECT000579084                                               |                                                         |
| <b>Technical Severity:</b> Critical                                             | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                              | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 05.9.00                                          | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Multicast traffic not received when L2 upstream is MCT peer.    |                                                         |
| <b>Condition:</b> When CCEP flaps and incoming changes to ICL and back to CCEP. |                                                         |
| <b>Recovery:</b> Clear ip pim mcache                                            |                                                         |

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| <b>Defect ID:</b> DEFECT000579096                                                                                                            |                                               |
| <b>Technical Severity:</b> Medium                                                                                                            | <b>Probability:</b> Medium                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                           | <b>Technology Group:</b> Security             |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                       | <b>Technology:</b> PBR - Policy-Based Routing |
| <b>Symptom:</b> After removal of allow-all-vlan pbr from an interface, the VLAN traffic received on the interface would still get processed. |                                               |
| <b>Condition:</b> Removal of "allow-all-vlan pbr" option from an interface.                                                                  |                                               |
| <b>Recovery:</b> Power cycle of the module after the command has been removed is the only recovery option.                                   |                                               |

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| <b>Defect ID:</b> DEFECT000579123                                                                                                                                                                                                                                                       |                                                |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                         | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                      | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                  | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> IPv6 ACL rate-limiting accounting doesn't increment as per traffic hitting the ACL rules. But rate-limiting of traffic works fine. The problem has been fixed in R6.0.                                                                                                  |                                                |
| <b>Condition:</b> With IPv6 ACL based rate-limiting configured on an interface, when user executes the command "show ipv6 access-list accounting ethernet <slot/port> in rate-limit", the accounting counters don't reflect the traffic hitting the IPv6 ACL based rate-limiting rules. |                                                |

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| <b>Defect ID:</b> DEFECT000579525                                                           |                                                               |
| <b>Technical Severity:</b> Medium                                                           | <b>Probability:</b> High                                      |
| <b>Product:</b> Brocade NetIron OS                                                          | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.6.00                                                      | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> "Warn: active primary sync to standby MP failed!" seen on console.          |                                                               |
| <b>Condition:</b> Seen when MCT CCEP/CEP ports flapped multiple times within a few seconds. |                                                               |

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| <b>Defect ID:</b> DEFECT000579759                                                   |                                                 |
| <b>Technical Severity:</b> High                                                     | <b>Probability:</b> Low                         |
| <b>Product:</b> Brocade NetIron OS                                                  | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                              | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Traffic loss and high LP CPU conditions in MCT L2VPN configuration. |                                                 |
| <b>Condition:</b> MCT L2VPN configuration.                                          |                                                 |

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| <b>Defect ID:</b> DEFECT000579937                                                                |                                                    |
| <b>Technical Severity:</b> Medium                                                                | <b>Probability:</b> Medium                         |
| <b>Product:</b> Brocade NetIron OS                                                               | <b>Technology Group:</b> Management                |
| <b>Reported In Release:</b> NI 05.6.00                                                           | <b>Technology:</b> Software Installation & Upgrade |
| <b>Symptom:</b> BRAM size could sometimes be displayed as zero in "show version" command output. |                                                    |
| <b>Condition:</b> On Software version NI05200 and above for 4x10G Line card module.              |                                                    |
| Note: This does not cause any issue and hence can be ignored                                     |                                                    |

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| <b>Defect ID:</b> DEFECT000579942                                                 |                                               |
| <b>Technical Severity:</b> Critical                                               | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                | <b>Technology Group:</b> Security             |
| <b>Reported In Release:</b> NI 05.9.00                                            | <b>Technology:</b> PBR - Policy-Based Routing |
| <b>Symptom:</b> When user removes IPv4 PBR, L2 PBR cam is also removed.           |                                               |
| <b>Condition:</b> L2 Policy is applied on interface.                              |                                               |
| <b>Workaround:</b> Disable cam sharing or apply dummy Ipv4 PBR on that interface. |                                               |
| <b>Recovery:</b> Disable cam sharing.                                             |                                               |

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| <b>Defect ID:</b> DEFECT000580193                                                                                                                                                                                                                                         |                                                               |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                           | <b>Probability:</b> Medium                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                        | <b>Technology Group:</b> Layer 3 Routing/Network Layer        |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                                    | <b>Technology:</b> DHCP - Dynamic Host Configuration Protocol |
| <b>Symptom:</b> DHCPv6 clients do not get assigned IPv6 addresses. When a client sends a DHCPv6 request, the MLX responds with an incorrect IPv6 source address. This causes devices that have strict checking enabled (like ASUS routers) to reject the DHCPv6 response. |                                                               |
| <b>Condition:</b> MLX acting as DHCPv6 agent.                                                                                                                                                                                                                             |                                                               |

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| <b>Defect ID:</b> DEFECT000580360                                                                                               |                                                              |
| <b>Technical Severity:</b> Medium                                                                                               | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                              | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.9.00                                                                                          | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> SNMPv3 groups using IPv4 standard numbered ACLs may be rejected and removed from the configuration upon reload. |                                                              |
| <b>Condition:</b> Standard numbered ACL for SNMPv3 groups are applied.                                                          |                                                              |
| <b>Recovery:</b> Reconfigure the missing SNMPv3 groups after the device has fully loaded its configuration.                     |                                                              |

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| <b>Defect ID:</b> DEFECT000580510                                                                                                                                  |                                                |
| <b>Technical Severity:</b> Medium                                                                                                                                  | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                 | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                             | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> CES/CER node does not respond to a trace route request                                                                                             |                                                |
| <b>Condition:</b> Issue can be seen when Receive ACL is configured on the CES/CER node and "traceroute" command is executed to a destination via the CES/CER node. |                                                |
| Note: This issue is applicable only for CES/CER platforms                                                                                                          |                                                |

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| <b>Defect ID:</b> DEFECT000580563                                                                                                                                                                                                                                                                       |                                                         |
| <b>Technical Severity:</b> Low                                                                                                                                                                                                                                                                          | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                      | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                  | <b>Technology:</b> BGP4+ - IPv6 Border Gateway Protocol |
| <b>Symptom:</b> IPV4 or IPV6 prefix which gets filtered due to an inbound route-map will be flagged with "F" meaning "Filtered". For such a filtered route; the next-hop will be shown as "Not Reachable" though the next-hop can be reachable. This can mislead to troubleshoot next-hop reachability. |                                                         |
| <b>Condition:</b> For a BGP neighbor inbound route-map should be configured.<br>The prefix filtered in the route-map can be an IPV4 prefix or IPV6 prefix.                                                                                                                                              |                                                         |

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| <b>Defect ID:</b> DEFECT000580685                                          |                                                 |
| <b>Technical Severity:</b> High                                            | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                         | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                     | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Router reload while continuous CCEP and CEP flaps.         |                                                 |
| <b>Condition:</b> On MCT L2VPN peer, when CCEP and CEP flaps continuously. |                                                 |

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| <b>Defect ID:</b> DEFECT000580810                                                                                                          |                                            |
| <b>Technical Severity:</b> High                                                                                                            | <b>Probability:</b> Medium                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                         | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                     | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> Traffic also sent to the older ports which was part of the TVF LAG LB VLAN before.                                         |                                            |
| <b>Condition:</b> When the TVF LAG LB VLAN was deleted and added with new set of ports, traffic also passing through older ports.          |                                            |
| <b>Recovery:</b> Add old port of the removed TVF LAG LB VLAN again to the same TVF LAG LB VLAN and remove it.<br>or Re-load the Line Card. |                                            |

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| <b>Defect ID:</b> DEFECT000580877                                                                           |                                     |
| <b>Technical Severity:</b> Low                                                                              | <b>Probability:</b> Low             |
| <b>Product:</b> Brocade NetIron OS                                                                          | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 06.0.00                                                                      | <b>Technology:</b> Sysmon           |
| <b>Symptom:</b> The display does not show information on slot when the command "show sysmon config" is run. |                                     |
| <b>Condition:</b> This issue is seen when the slot information is not edited.                               |                                     |

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| <b>Defect ID:</b> DEFECT000580978                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> Medium            |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology Group:</b> Security     |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology:</b> SSH - Secure Shell |
| <b>Symptom:</b> Device may unexpectedly reload during SSH access.                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| <b>Condition:</b> When unknown SSH client is trying for the SSH access repeatedly with bad login and password.                                                                                                                                                                                                                                                                                                                                                   |                                       |
| <b>Workaround:</b> You can permit or deny SSH server access to the device using ACLs. To configure an ACL that restricts SSH server access to the device, enter commands such as the following.<br>device(config)# access-list 12 deny host 10.157.22.98<br>device(config)# access-list 12 deny 10.157.23.0 10.0.0.255<br>device(config)# access-list 12 deny 10.157.24.0/24<br>device(config)# access-list 12 permit any<br>device(config)# ssh access-group 12 |                                       |

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| <b>Defect ID:</b> DEFECT000581192                                                                                                                                                |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                               | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                           | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> In CER/CES, when uplink-switch settings are applied to a MCT VLAN, known unicast traffic is flooded out the ICL LAG Primary port as if they are unknown unicast. |                                                 |
| <b>Condition:</b> Uplink-switch configuration should be present on a MCT VLAN.                                                                                                   |                                                 |
| <b>Recovery:</b> Step 1. Disable the cluster ports<br>Step 2. Do "no deploy" for associated cluster<br>Step 3. Do "deploy" for associated cluster                                |                                                 |

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| <b>Defect ID:</b> DEFECT000581327                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b> Hardware Monitoring |
| <p><b>Symptom:</b> Errors like those shown below are reported on the console and syslog.</p> <p>“CAM1 Dbase Parity Error on port range 1/1 – 1/4”<br/> “CAM3 Dbase Parity Error on port range 3/1”<br/> “CAM2PRAM Word 3 Parity Error on port range 6/5 - 6/8”</p> <p>These errors may or may not be accompanied by traffic loss or issues in traffic forwarding.</p>                                                                                                                                                          |                                        |
| <p><b>Condition:</b> There are no specific trigger for these errors. The errors will be noticed from release NI 05.6.00 onwards from when the NP memory error monitoring (Line Module memory error monitoring) feature was introduced.</p>                                                                                                                                                                                                                                                                                     |                                        |
| <p><b>Workaround:</b> If these errors are not accompanied by traffic loss or issues in traffic forwarding, the frequency at which these errors are logged can be reduced by increasing the polling period of sysmon NP memory errors using the CLI command (from the CONFIG level),</p> <p>“sysmon np memory-errors polling-period &lt;polling-period in seconds&gt;”</p> <p>The default polling period is 60 seconds, it can be increased from the current default to a higher value, say 43200 seconds (every 12 hours).</p> |                                        |

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| <b>Defect ID:</b> DEFECT000581474                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |
| <b>Technical Severity:</b> Low                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Probability:</b> Low                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Technology:</b> ACLs - Access Control Lists |
| <p><b>Symptom:</b> Port membership of IPv4 ACL gets affected when IPv6-ACL is bound on VE interface<br/> For example, if 'ip access-group 100 in ethe 1/3' and 'ipv6 traffic-filter ipv6acl in' are configured on a VE in the same sequence, the "show run" command displays "'ip access-group 100 in ethe 1/1 to 1/20". But, after removing 'ipv6 traffic-filter ipv6acl in', the IPv4 ACL configuration will be seen in 'show run' as 'ip access-group 100 in'.</p> |                                                |
| <p><b>Condition:</b> This happens when an IPv6 ACL is applied and removed while an IPv4 ACL also exists on the VE.</p>                                                                                                                                                                                                                                                                                                                                                |                                                |
| <p><b>Workaround:</b> Issue is not seen when IPv6 ACLs are configured before IPv4 ACLs.</p>                                                                                                                                                                                                                                                                                                                                                                           |                                                |
| <p><b>Recovery:</b> Remove and reconfigure the IPv4 ACL after adding IPv6 ACL</p>                                                                                                                                                                                                                                                                                                                                                                                     |                                                |

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| <b>Defect ID:</b> DEFECT000581636                                                                                                                                                                                                                                                                                                                                                                            |                                                |
| <b>Technical Severity:</b> Low                                                                                                                                                                                                                                                                                                                                                                               | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                                                       | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Syslog may display wrong Ether type information for packets that are denied due to a MAC ACL enabled on an interface.<br><br>Example: LLDP (Ethertype : 000088cc) traffic could be logged as APPLETTALK                                                                                                                                                                                      |                                                |
| <b>Condition:</b> MAC ACL is enabled on an interface. Command "mac access-group enable-deny-logging" is enabled. Deny rule is configured as part of ACL with "log" option enabled.<br><br>Example:<br>interface ethe 4/2<br>mac access-group mac_log in<br>mac access-group enable-deny-logging<br><br>mac access-list mac_log<br>deny any any any etype 000080f3 log<br>deny any any any etype 000088cc log |                                                |

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| <b>Defect ID:</b> DEFECT000581903                                                                                                                                                                                |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                  | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                           | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> When multiple BGP neighbors are configured, configuring "filter-change-update-delay" with "0" might put some BGP neighbors stuck in "ESTABp" state.<br>"p" meaning Filter Group change "Pending" |                                                        |
| <b>Condition:</b> Multiple BGP neighbors should be configured.<br>"filter-change-update-delay 0" should be configured.                                                                                           |                                                        |

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| <b>Defect ID:</b> DEFECT000582212                                                                                                             |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                             | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                            | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                        | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> If LAG member ports flap for short time, then the traffic passing through the ports may be dropped after the port(s) come up. |                                                 |
| <b>Condition:</b> LAG configuration                                                                                                           |                                                 |

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| <b>Defect ID:</b> DEFECT000582245                                       |                              |
| <b>Technical Severity:</b> High                                         | <b>Probability:</b> High     |
| <b>Product:</b> Brocade NetIron OS                                      | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 05.8.00                                  | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> Unexpected Line card reload while adding OpenFlow rule. |                              |
| <b>Condition:</b> Adding an OpenFlow rule with action as Port Group.    |                              |

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| <b>Defect ID:</b> DEFECT000582287                                                                                                                                                                                                                                                             |                                                               |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                             | <b>Probability:</b> Medium                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                            | <b>Technology Group:</b> Layer 3 Routing/Network Layer        |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                        | <b>Technology:</b> DHCP - Dynamic Host Configuration Protocol |
| <b>Symptom:</b> DHCP client will not be able to obtain the IP address                                                                                                                                                                                                                         |                                                               |
| <b>Condition:</b> This issue will be seen when the node is acting as a DHCP relay agent under the following conditions:<br>- The DHCP server and the client are in non default-VRF<br>- Static routes are used on the DHCP relay agent to forward the DHCP messages to DHCP client and server |                                                               |
| <b>Workaround:</b> On the DHCP relay agent, to reach the DHCP server and client, inter-VRF leaking should be used instead of static routes.                                                                                                                                                   |                                                               |

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| <b>Defect ID:</b> DEFECT000582844                                                                                                                                                                                                                                                  |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                    | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                 | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                             | <b>Technology:</b> Static Routing (IPv4)               |
| <b>Symptom:</b> CER fails to forward the traffic for the configured static route to X.X.X.X/32 with directly connected interface as next-hop.                                                                                                                                      |                                                        |
| <b>Condition:</b> (1) CER is configured with a static route to X.X.X.X/32 destination with directly connected interface as next-hop.<br>(2) IP Traffic with IP-OPTIONs comes to CER, destined to X.X.X.X/32.<br>(3) Stop the traffic for few minutes destined to this destination. |                                                        |
| <b>Recovery:</b> clear ip route X.X.X.X/32                                                                                                                                                                                                                                         |                                                        |

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| <b>Defect ID:</b> DEFECT000582945                                                                               |                                                   |
| <b>Technical Severity:</b> High                                                                                 | <b>Probability:</b> Medium                        |
| <b>Product:</b> Brocade NetIron OS                                                                              | <b>Technology Group:</b> Layer 2 Switching        |
| <b>Reported In Release:</b> NI 05.6.00                                                                          | <b>Technology:</b> xSTP - Spanning Tree Protocols |
| <b>Symptom:</b> CER unexpectedly reloads                                                                        |                                                   |
| <b>Condition:</b> All ports enabled at same time when same traffic can reach the LP CPU through different ports |                                                   |

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| <b>Defect ID:</b> DEFECT000583095                                                                                                                                                                                                                                                |                                                 |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                  | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                               | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                           | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> "Client-interface shut" on standby MCT node is not working as expected as the expectation is to being the CCP down with reason "local client interfaces disabled" and CCP has to come up when "no client-interface shut" is done. But the same is not happening. |                                                 |
| <b>Condition:</b> Using "client interface shut" and "no client interface shut" with MCT VPLS setup.                                                                                                                                                                              |                                                 |
| <b>Recovery:</b> no deploy and deeply can recover system                                                                                                                                                                                                                         |                                                 |

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| <b>Defect ID:</b> DEFECT000583319                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> SNMP polling on bgp4V2PeerTable (OID brcdIp.3.5.1.1.2) does not display all the BGP entries                                                                                                                                                                                                                                                                                                                                                                            |                                                              |
| <b>Condition:</b> Multiple BGP sessions should be configured and the local IP of one of the peers should be higher than the next BGP peer entry's local IP address. Sample entries are given below to explain the behavior exhibited: -<br><br>BGP peer 1 local IP address : xx.xx.xx.xx<br>BGP peer 2 local IP address : xx.xx.xx.xx<br>BGP peer 3 local IP address : xx.xx.xx.xx<br><br>In the above example, the second BGP entry with local IP address xx.xx.xx.xx will be skipped |                                                              |

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| <b>Defect ID:</b> DEFECT000583379                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Probability:</b> Medium                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Technology Group:</b> Security                |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology:</b> MAC Port-based Authentication |
| <b>Symptom:</b> Symptom 1: When a MAC moves from a secured port to a non-secured port, packets from secure MAC address get forwarded (instead of getting dropped).<br>Symptom 2: The Violation mode with Port MAC Security configured will default to "None" instead of "shutdown". This means that the port will not be shutdown when violation occurs and all packets will continue to get forwarded. The number of MACs learnt as secure MACs will still be limited to the maximum value configured. However, the remaining MACs will get learnt as non-secure MACs.<br>Symptom 3: After a reload, the configured violation "maximum" limit will be reset to the default value of '1'. |                                                  |
| <b>Condition:</b> These issues are seen in 5.8.00bm and 5.8.00d on CES/CER platforms with the Port MAC Security feature configured.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |
| <b>Workaround:</b> For Symptom 1: When PMS configuration is required, the system must be reloaded after applying it<br>For Symptom 2: Set Violation mode explicitly to "Shutdown" using CLI<br>For Symptom 3: After a reload, reconfigure the "maximum" limit.                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |

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| <b>Defect ID:</b> DEFECT000583604                                                                                         |                                     |
| <b>Technical Severity:</b> High                                                                                           | <b>Probability:</b> Medium          |
| <b>Product:</b> Brocade NetIron OS                                                                                        | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.8.00                                                                                    | <b>Technology:</b> Syslog           |
| <b>Symptom:</b> A port on the 20x10G module does not come up after the remote side flaps multiple times continuously.     |                                     |
| <b>Condition:</b> Seen only on the 20x10G module accompanied by continuous flapping of the remote side.                   |                                     |
| <b>Recovery:</b> Remove and reconnect fiber locally or disable and enable the port again manually at remote or local end. |                                     |



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| <b>Defect ID:</b> DEFECT000583906                                                                                                                                                                   |                                                         |
| <b>Technical Severity:</b> Medium                                                                                                                                                                   | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                  | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                              | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Multicast traffic loss after flapping CCEP port and clearing multicast cache in an MCT network.                                                                                     |                                                         |
| <b>Condition:</b> Presence of 200+ IGMP groups. Continuous CCEP port flaps in a MCT cluster along with clearing of multicast cache entries on the cluster node (on which the CCEP port is flapping) |                                                         |
| <b>Recovery:</b> Clear the multicast cache entries on both MCT peers.                                                                                                                               |                                                         |

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| <b>Defect ID:</b> DEFECT000584065                                                                                                                                                                                                                     |                                           |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                       | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                    | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Layer3 multicast traffic causes high CPU usage on one of the MCT cluster devices.                                                                                                                                                     |                                           |
| <b>Condition:</b> Either of the following cases occurring on the peer node of a MCT setup can trigger this condition: -<br>- MCT peer reload<br>- Management Module Switchover of the MCT peer<br>- Disabling and enabling Cluster Client port [CCEP] |                                           |
| <b>Recovery:</b> Clear the multicast cache entries on both MCT peers.                                                                                                                                                                                 |                                           |

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| <b>Defect ID:</b> DEFECT000584145                                                                                                                                                           |                                        |
| <b>Technical Severity:</b> Low                                                                                                                                                              | <b>Probability:</b> Low                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                          | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                      | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Misspelling of text "search" as "serach" in diag burn-in log.<br><br>Message similar to the below will be displayed:<br>"PORT1 CAM0 serach error 0x0 0x20 :0x5120 :0x5120 " |                                        |
| <b>Condition:</b> diag burn-in command fails because of CAM search errors when run on a Line card Module                                                                                    |                                        |

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| <b>Defect ID:</b> DEFECT000584285                                                                                                                                                            |                                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                            | <b>Probability:</b> Medium                                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                           | <b>Technology Group:</b> Monitoring                                    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                       | <b>Technology:</b> RAS - Reliability, Availability, and Serviceability |
| <b>Symptom:</b> On running "diag burn-in", the below error could be seen on diagnostic failure.<br>PORT1 CAM0 serach error 0x0 0x20 :0x5120 :0x5120<br>diag_ntl_entry_search error<br>Failed |                                                                        |
| <b>Condition:</b> With NI5800 and above image, when running diagnostics on Line card module types 20x10G and 2x100G-CFP2.                                                                    |                                                                        |
| <b>Recovery:</b> Reload the system to boot up the application since these errors will be corrected by the application software.                                                              |                                                                        |

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| <b>Defect ID:</b> DEFECT000584298                                                            |                                                        |
| <b>Technical Severity:</b> High                                                              | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                           | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 06.0.00                                                       | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Management module may unexpectedly reload                                    |                                                        |
| <b>Condition:</b> Scaled IPSEC configuration with more than 50 tunnels and HLOS is executed. |                                                        |

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| <b>Defect ID:</b> DEFECT000584661                                                                                                           |                                                               |
| <b>Technical Severity:</b> High                                                                                                             | <b>Probability:</b> Medium                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                          | <b>Technology Group:</b> Layer 3 Routing/Network Layer        |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                      | <b>Technology:</b> DHCP - Dynamic Host Configuration Protocol |
| <b>Symptom:</b> DHCP client will not be able to obtain the IP address.                                                                      |                                                               |
| <b>Condition:</b> This issue will be seen when the device is acting as a DHCP relay agent and the DHCP server/client are in different VRFs. |                                                               |
| <b>Workaround:</b> Configure DHCP server and client in the same VRF.                                                                        |                                                               |

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| <b>Defect ID:</b> DEFECT000584908                                                                                                                   |                                                                            |
| <b>Technical Severity:</b> High                                                                                                                     | <b>Probability:</b> High                                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                  | <b>Technology Group:</b> Layer 3 Routing/Network Layer                     |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                              | <b>Technology:</b> IS-IS - IPv4 Intermediate System to Intermediate System |
| <b>Symptom:</b> IS-IS ECMP route cost calculation between shortcuts and IGP path may go wrong wherein shortcut path would be preferred incorrectly. |                                                                            |
| <b>Condition:</b> This issue may be observed when "reverse-metric" command is configured under global or interface level.                           |                                                                            |

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| <b>Defect ID:</b> DEFECT000585112                                                                            |                                                              |
| <b>Technical Severity:</b> Low                                                                               | <b>Probability:</b> High                                     |
| <b>Product:</b> Brocade NetIron OS                                                                           | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.9.00                                                                       | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> 'ifTable' does not display the LAGs entries during the SNMP walk.                            |                                                              |
| <b>Condition:</b> Device should have LAG configured and SNMP walk should be performed on the table 'ifTable' |                                                              |
| Note: This issue is applicable from the release 5.9 onwards                                                  |                                                              |

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| <b>Defect ID:</b> DEFECT000585156                                                                                                                                                                           |                                                   |
| <b>Technical Severity:</b> High                                                                                                                                                                             | <b>Probability:</b> High                          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                          | <b>Technology Group:</b> MPLS                     |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                      | <b>Technology:</b> MPLS VLL - Virtual Leased Line |
| <b>Symptom:</b> Below logs keeps coming on MP console.                                                                                                                                                      |                                                   |
| <pre> ERROR:mplp_get_lp_data_request:Session29: requested slot mask ffffffff 80000000 is invalid for msg-type 12 ERROR:mplp_get_lp_data_request:msg-type is MPLP_MSGTYPE_SCP_INFO and scp-type is 44 </pre> |                                                   |
| <b>Condition:</b> VLL-LOCAL configuration on the 32 slot MLX chassis.                                                                                                                                       |                                                   |

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| <b>Defect ID:</b> DEFECT000585309                                                                        |                                           |
| <b>Technical Severity:</b> High                                                                          | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                       | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.7.00                                                                   | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Intermittent packet loss when PIM interface through which traffic is not received flaps. |                                           |
| <b>Condition:</b> PIM interface flaps                                                                    |                                           |

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| <b>Defect ID:</b> DEFECT000585789                                                                                                                                  |                                                         |
| <b>Technical Severity:</b> High                                                                                                                                    | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                 | <b>Technology Group:</b> Layer 3 Routing/Network Layer  |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                             | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> Router may unexpectedly reload in OSPF task when a neighboring third party router reloads.                                                         |                                                         |
| <b>Condition:</b> - Router should have OSPF adjacency with a third party router and should have learnt Opaque LSAs from it<br>- The neighboring router is reloaded |                                                         |

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| <b>Defect ID:</b> DEFECT000586048                                                                                                                                                                                                                     |                                                         |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                       | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                    | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Layer3 multicast traffic causes high CPU usage on one of the MCT cluster devices.                                                                                                                                                     |                                                         |
| <b>Condition:</b> Either of the following cases occurring on the peer node of a MCT setup can trigger this condition: -<br>- MCT peer reload<br>- Management Module Switchover of the MCT peer<br>- Disabling and enabling Cluster Client port [CCEP] |                                                         |
| <b>Recovery:</b> Clear the multicast cache entries on both MCT peers.                                                                                                                                                                                 |                                                         |

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| <b>Defect ID:</b> DEFECT000586114                                                                                                                                                                                                                                                           |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                           | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                          | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                      | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Starting 5.7.00, named ACLs are mistakenly restricted from having names that begin with a number. Because of this, when upgrading from a lower release to 5.7.00 or above, any Named ACL with a name beginning with a number will get rejected in the reload after upgrade. |                                                 |
| <b>Condition:</b> Seen in 5.7.00 and above when named ACLs are configured to have names that begin with a number.                                                                                                                                                                           |                                                 |
| <b>Workaround:</b> Before upgrading to any release 5.7.00 or above, ensure that all named ACLs have names that do not begin with a number.                                                                                                                                                  |                                                 |
| <b>Recovery:</b> If any named ACLs were not applied during upgrade, reconfigure them with names that do not begin with a number and reapply them.                                                                                                                                           |                                                 |

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| <b>Defect ID:</b> DEFECT000586281                                                                                                                                                                                                                                                                                                                                                                                                       |                                                              |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <p><b>Symptom:</b> When querying the custom MIB 'agIpPortCounterTable' the octet on the member links of the LAG show the same value. However, the "show stats" output for that LAG could show different values.</p> <p>Example: If 1/3 and 2/3 are member ports of a LAG and only 1/3 receives traffic and 2/3 does not, both could still show the same values in their counters when custom MIB 'agIpPortCounterTable' is queried.</p> |                                                              |
| <b>Condition:</b> The LAG being queried has more than one member port                                                                                                                                                                                                                                                                                                                                                                   |                                                              |

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| <b>Defect ID:</b> DEFECT000586897                                                                                                                                                                                                                                                                                                                   |                                       |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                     | <b>Probability:</b> Medium            |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                  | <b>Technology Group:</b> Security     |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                              | <b>Technology:</b> SSH - Secure Shell |
| <p><b>Symptom:</b> Unexpected reload of Management module when copying multiple L2 ACL configuration files using SCP/ Tftp://ftp./</p>                                                                                                                                                                                                              |                                       |
| <p><b>Condition:</b> Repeated execution of any of the below mentioned commands on the Management module where the file has at least 1000 ACLs with each ACL having 257 filters.</p> <p>1) "copy scp running-config &lt;scp-server-ip&gt; &lt;file-name&gt;"<br/>(or)<br/>2) "copy tftp running-config &lt;tftp-server-ip&gt; &lt;file-name&gt;"</p> |                                       |

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| <b>Defect ID:</b> DEFECT000587383                                                   |                                                |
| <b>Technical Severity:</b> Medium                                                   | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                  | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.6.00                                              | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Device responds to NTP query targeted for broadcast IPv4 address    |                                                |
| <b>Condition:</b> Reception of NTP query with destination IPv4 address as broadcast |                                                |

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| <b>Defect ID:</b> DEFECT000587423                                                                                                                                                                             |                                                           |
| <b>Technical Severity:</b> Medium                                                                                                                                                                             | <b>Probability:</b> Medium                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                            | <b>Technology Group:</b> Security                         |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                        | <b>Technology:</b> MACsec - Media Access Control security |
| <p><b>Symptom:</b> When "delete-dynamic-learn" is enabled under "global-port-security", MAC addresses learnt on a PMS enabled LAG member port do not get deleted after the corresponding interface flaps.</p> |                                                           |
| <p><b>Condition:</b> Under "global-port-security", "delete-dynamic-learn" is enabled.<br/>PMS is enabled on a LAG port.<br/>MAC addresses are learnt on LAG's member ports.</p>                               |                                                           |
| <b>Recovery:</b> Delete the Secure MAC address learnt on the LAG port manually.                                                                                                                               |                                                           |

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| <b>Defect ID:</b> DEFECT000588340                                                                                                                                                                       |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                       | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                      | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                  | <b>Technology:</b> ERP - Ethernet Ring Protocol |
| <b>Symptom:</b> Upon reload, CES/CER nodes will go back to ERP version '1' even though the device was configured as ERP version '2'                                                                     |                                                 |
| <b>Condition:</b> "raps-default-mac" option is removed from ERP configuration (as shown in the example below) to enable ERP version '2' and the device is reloaded<br><br>erp 10<br>no raps-default-mac |                                                 |
| <b>Recovery:</b> The command "raps-default-mac" has to be removed again after reload                                                                                                                    |                                                 |

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| <b>Defect ID:</b> DEFECT000588469                                                                                                                                                                                                                                                                                                                                    |                                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                    | <b>Probability:</b> High                                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                   | <b>Technology Group:</b> Monitoring                                    |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                               | <b>Technology:</b> RAS - Reliability, Availability, and Serviceability |
| <b>Symptom:</b> When the line card is booted to OS, from the monitor using "boot os flash primary", after some time remote console session ends abruptly. User may see the following errors just before the session termination on the line card:<br>TSEC: bm_get_buf() failed(2) 1<br>TSEC: bm_get_buf() failed(2) 2<br>TSEC error: Invalid buffer pointer. Count=1 |                                                                        |
| <b>Condition:</b> When the line card is booted to OS, from the monitor using "boot os flash primary" command.                                                                                                                                                                                                                                                        |                                                                        |
| <b>Workaround:</b> No workaround                                                                                                                                                                                                                                                                                                                                     |                                                                        |
| <b>Recovery:</b> Reboot the line card from the management card using "power-off lp" and "power-on lp".                                                                                                                                                                                                                                                               |                                                                        |

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| <b>Defect ID:</b> DEFECT000589350                                                                                |                                                         |
| <b>Technical Severity:</b> High                                                                                  | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                               | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 05.9.00                                                                           | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Intermittent multicast traffic drops.                                                            |                                                         |
| <b>Condition:</b> Seen when a PIM enabled interface with no traffic incoming or outgoing is disabled or enabled. |                                                         |

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| <b>Defect ID:</b> DEFECT000589468                                                                                                                    |                                        |
| <b>Technical Severity:</b> High                                                                                                                      | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                   | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                               | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Low memory warning syslog messages are observed after copying an individual FPGA-XPP image to a Line card module through SSH session |                                        |
| <b>Condition:</b> On a device that is already utilizing high memory and is close to the low memory warning threshold                                 |                                        |
| <b>Workaround:</b> Perform individual FPGA XPP image copy from the console or a Telnet session<br>OR<br>Copy the combined LP FPGA image              |                                        |

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| <b>Defect ID:</b> DEFECT000589471                             |                                        |
| <b>Technical Severity:</b> High                               | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                            | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.9.00                        | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> When connected to LR4 CFP link won't come up. |                                        |
| <b>Condition:</b> NA                                          |                                        |

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| <b>Defect ID:</b> DEFECT000589895                                                                     |                                                         |
| <b>Technical Severity:</b> High                                                                       | <b>Probability:</b> Medium                              |
| <b>Product:</b> Brocade NetIron OS                                                                    | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 05.9.00                                                                | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Slow loss of packet buffer will be observed on Line card module.                      |                                                         |
| <b>Condition:</b> Line card module frequently receives and reassembles fragmented IPv4 PIMv2 packets. |                                                         |

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| <b>Defect ID:</b> DEFECT000590494                                                                                                       |                                                |
| <b>Technical Severity:</b> High                                                                                                         | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                      | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                  | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Unexpected traffic loss when applying ACL                                                                               |                                                |
| <b>Condition:</b> Applying numbered/named L2 ACL filter with Etype in hex and priority-mapping.                                         |                                                |
| <p>Example:</p> <pre>dut1(config)#access-list 404 permit 1234.5678.1234 ffff.ffff.ffff any 4019 etype 00008100 priority-mapping 7</pre> |                                                |
| <b>Workaround:</b> Configure ACLs with etype as the keywords instead of hexa values                                                     |                                                |
| <pre>dut1(config)#access-list 404 permit 1234.5678.1234 ffff.ffff.ffff any 4019 etype ipv6 priority-mapping 7</pre>                     |                                                |

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| <b>Defect ID:</b> DEFECT000590634                                                                                                  |                                                              |
| <b>Technical Severity:</b> High                                                                                                    | <b>Probability:</b> High                                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                 | <b>Technology Group:</b> IP Multicast                        |
| <b>Reported In Release:</b> NI 06.0.00                                                                                             | <b>Technology:</b> IGMP - Internet Group Management Protocol |
| <b>Symptom:</b> Device may reload when user run script which configures and un-configures IGMPv3 version configuration on tunnels. |                                                              |
| <b>Condition:</b> Repeatedly configure/un-configure IGMPv3 version configuration on tunnel.                                        |                                                              |

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| <b>Defect ID:</b> DEFECT000591720                                                                                                                                                                                                                                                           |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                           | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                          | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                      | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> For VRF/VPNv4 routes, BGP might not honor next-hop IGP metric for selecting Best-Path, even with "next-hop-mpls follow-igp" configured.                                                                                                                                     |                                                        |
| <b>Condition:</b> "next-hop-mpls follow-igp" should be configured in BGP.                                                                                                                                                                                                                   |                                                        |
| <p>For a VPN learned destination, there should be more than one path, and all paths should have different next-hops with same outgoing-interface/tunnel.</p> <p>Flapping this outgoing-interface/tunnel will result in a Best-Path that might not have honored the next-hop igp metric.</p> |                                                        |

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| <b>Defect ID:</b> DEFECT000591822                                                                                                                 |                                                 |
| <b>Technical Severity:</b> High                                                                                                                   | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                            | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Management module stops responding to the SSH and Telnet connection requests.                                                     |                                                 |
| <b>Condition:</b> When "show tech-support" is executed and the associated SSH/Telnet session is aborted midway.                                   |                                                 |
| <b>Recovery:</b> A switch-over of the active Management module from another existing open session or reload of the router is required to recover. |                                                 |

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| <b>Defect ID:</b> DEFECT000593099                                                          |                                                              |
| <b>Technical Severity:</b> Medium                                                          | <b>Probability:</b> High                                     |
| <b>Product:</b> Brocade NetIron OS                                                         | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 06.0.00                                                     | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> ifDescr for PW3 interface in a pwEnetTable was showing an incorrect value. |                                                              |
| <b>Condition:</b> Always seen for pwEnetTable.                                             |                                                              |

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| <b>Defect ID:</b> DEFECT000593652                                                                                                                                                                                 |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                 | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                            | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Even after removing the NTP configuration either by issuing "no ntp" or by removing all the configured NTP servers, the output of "show clock detail" command still shows the time source as NTP. |                                                 |
| <b>Condition:</b> Either by executing command "no ntp" to unconfigure NTP or by removing all the configured NTP servers                                                                                           |                                                 |

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| <b>Defect ID:</b> DEFECT000594078                                                                                                                                                                                |                                               |
| <b>Technical Severity:</b> High                                                                                                                                                                                  | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                               | <b>Technology Group:</b> Security             |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                           | <b>Technology:</b> PBR - Policy-Based Routing |
| <b>Symptom:</b> The PBR counters for IPv4/IPv6 are not updating when the ACL contains mix of permit and deny rules.                                                                                              |                                               |
| <b>Condition:</b> Create an ACL with rules with action as permit and deny. Use this ACL in PBR. Bind the PBR on an interface. Send the traffic with matching attributes. The counters are not updating properly. |                                               |

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| <b>Defect ID:</b> DEFECT000594082                                                                                                      |                                               |
| <b>Technical Severity:</b> Medium                                                                                                      | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                     | <b>Technology Group:</b> Security             |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                 | <b>Technology:</b> PBR - Policy-Based Routing |
| <b>Symptom:</b> The statistics for ipv4 pbr are getting updated twice in CES/CER box.                                                  |                                               |
| <b>Condition:</b> Apply IPv4 PBR on interface and send traffic with matching rule attributes. The counters can be seen updating twice. |                                               |
| <b>Recovery:</b> This problem has been addressed in R6.0                                                                               |                                               |

## Closed without code changes

This section lists software defects with Critical, High, and Medium Technical Severity closed without a code change as of 4/25/2016 in NI 6.0.00.

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| <b>Defect ID:</b> DEFECT000545288                                                                                                                                                                                                                                                                                                                                     | <b>Technical Severity:</b> Medium |
| <b>Reason Code:</b> Not Reproducible                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b> High          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> SDN      |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                | <b>Technology:</b> OpenFlow       |
| <b>Symptom:</b> Issuing the command 'power-off lp all' and 'power-on lp all' may cause 8x10G modules to remain down due to "LBG failure". This can cause IPC failures and the below error messages to show on the MP console:<br>Error:sysmon_ipc_send_config: ipc_send() failed to dest_fid 0000d003 (ret = 4)<br>Error:dcbIpcNetIron_sendIpcBuff(): IPC send failed |                                   |
| <b>Condition:</b> This only affects 8x10G modules.                                                                                                                                                                                                                                                                                                                    |                                   |

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| <b>Defect ID:</b> DEFECT000545537                                                                                                                                                                         | <b>Technical Severity:</b> Medium                      |
| <b>Reason Code:</b> Not Reproducible                                                                                                                                                                      | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                        | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                    | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> In some scenarios, for just a few routes, re-addition of non-default routes takes more than 10ms. This has no functional impact and is applicable with algorithmic mode enabled LPs only. |                                                        |
| <b>Condition:</b> After clearing VPN neighbors status for multiple non-default VRFs at the same time, the re-addition of routes results in a few routes taking more than 10ms.                            |                                                        |

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| <b>Defect ID:</b> DEFECT000551390                                                                                                                                                                                                                                                                                                                                                                     | <b>Technical Severity:</b> Medium   |
| <b>Reason Code:</b> Not Reproducible                                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b> Low             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                                                                                                                                                                                                | <b>Technology:</b> Syslog           |
| <b>Symptom:</b> The below message could be seen frequently in syslog.<br>23: Mar 23 07:15:19:W: Latched low Temperature warning, port 16/9<br>24: Latched high TX Bias Current warning, port 16/9<br>25: Latched low TX Bias Current warning, port 16/9<br>26: Latched high TX Power warning, port 16/9<br>27: Latched low TX Power warning, port 16/9<br>28: Latched low RX Power warning, port 16/9 |                                     |
| <b>Condition:</b> On enabling optical monitoring on 20x10G Line card module with SFPP optic.                                                                                                                                                                                                                                                                                                          |                                     |
| <b>Workaround:</b> Disable optical monitoring for the port on which the errors are seen                                                                                                                                                                                                                                                                                                               |                                     |

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| <b>Defect ID:</b> DEFECT000553175                                                                                                                                                                                                            | <b>Technical Severity:</b> High             |
| <b>Reason Code:</b> Will Not Fix                                                                                                                                                                                                             | <b>Probability:</b> High                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                           | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                                                                                                                       | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> FRR may take longer than the standard 50 ms.                                                                                                                                                                                 |                                             |
| <b>Condition:</b> Issue can be seen if any of the following conditions are true -<br>- PIM interface and MPLS uplinks are on same physical interface.<br>- MPLS uplink ports are using different Network Processors on LP<br>- LDP signaling |                                             |
| <b>Workaround:</b> - Multicast and MPLS uplinks on different physical interfaces<br>- MPLS uplinks on same Network Processor on a single LP<br>- MR2 Management Module instead of MR<br>- VLL (RSVP signaled) instead of VPLS                |                                             |



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| <b>Defect ID:</b> DEFECT000553391                                                                                                                                                   | <b>Technical Severity:</b> High           |
| <b>Reason Code:</b> Design Limitation                                                                                                                                               | <b>Probability:</b> High                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                  | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                              | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> When OSPF NSR is configured and OSPF is enabled on IPsec tunnels and switchover is performed then some traffic loss may be observed during the switchover interval. |                                           |
| <b>Condition:</b> OSPF is configured on IPsec and OSPF NSR is enabled and switchover is performed.                                                                                  |                                           |

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| <b>Defect ID:</b> DEFECT000554273                                                                                                                          | <b>Technical Severity:</b> High               |
| <b>Reason Code:</b> Not Reproducible                                                                                                                       | <b>Probability:</b> Low                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                         | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                     | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> Sometimes while powering-up a chassis or any individual 8x10G LP, it can go down with the reason code "CARD_DOWN_REASON_TM_LBG_TEST_FAIL". |                                               |
| <b>Condition:</b> This issue can be encountered while full system reload or any individual 8x10G LP reboot.                                                |                                               |
| <b>Recovery:</b> Power-cycling the 8x10G LP, individually, resolves the issue.                                                                             |                                               |

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| <b>Defect ID:</b> DEFECT000556063                                                                                            | <b>Technical Severity:</b> Medium   |
| <b>Reason Code:</b> Not Reproducible                                                                                         | <b>Probability:</b> High            |
| <b>Product:</b> Brocade NetIron OS                                                                                           | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.9.00                                                                                       | <b>Technology:</b> Syslog           |
| <b>Symptom:</b> "A:PRAM free: slot 1 XPP 1 0x0007ff83 0x00000001" type messages logged during time of high ITC Queue usage . |                                     |
| <b>Condition:</b> During a time of High ITC Queue Usage.                                                                     |                                     |

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| <b>Defect ID:</b> DEFECT000556641                                                                                                   | <b>Technical Severity:</b> Medium             |
| <b>Reason Code:</b> Will Not Fix                                                                                                    | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                  | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                                                                              | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> "snTrapPortConfigChange" SNMP trap may be seen for a port which doesn't change status.                              |                                               |
| <b>Condition:</b> "snTrapPortConfigChange" port config change trap is seen twice after disabling a port, which is already disabled. |                                               |

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| <b>Defect ID:</b> DEFECT000559032                                                                                                                                                                             | <b>Technical Severity:</b> High               |
| <b>Reason Code:</b> Not Reproducible                                                                                                                                                                          | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                            | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                        | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> MAC table could get out of sync between the MCT chassis, cause incorrect flooding in the network in a L2 MCT configuration, when ICL link is flapped without keepalive VLAN.                  |                                               |
| <b>Condition:</b> May happen when ICL flaps without keepalive VLAN in a scaled topology. Example of one such scale topology includes 4K MCT VLANs, 140 K MAC entries, 22 K ARP entries, with 200 MCT clients. |                                               |
| <b>Recovery:</b> Clear MAC on the MCT chassis to repopulate the MAC table                                                                                                                                     |                                               |

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| <b>Defect ID:</b> DEFECT000559413                                                      | <b>Technical Severity:</b> Medium                      |
| <b>Reason Code:</b> Not Reproducible                                                   | <b>Probability:</b> Low                                |
| <b>Product:</b> Brocade NetIron OS                                                     | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                 | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Unexpected reload while updating ACL clauses.                          |                                                        |
| <b>Condition:</b> Updating ACL clauses associated with multicast filter applied on VE. |                                                        |

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| <b>Defect ID:</b> DEFECT000559621                                                       | <b>Technical Severity:</b> Medium             |
| <b>Reason Code:</b> Not Reproducible                                                    | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                      | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                                  | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> IPSec module may undergo continuous Rolling reboot due to BIST failure. |                                               |
| <b>Condition:</b> FPGA installation could be incorrect.                                 |                                               |

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| <b>Defect ID:</b> DEFECT000560563                                                                                                       | <b>Technical Severity:</b> High               |
| <b>Reason Code:</b> Not Reproducible                                                                                                    | <b>Probability:</b> Medium                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                      | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                  | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> 0.1% frame loss may be observed at line rate due to EGQ reassembly errors in case of 2X100g line cards.                 |                                               |
| <b>Condition:</b> This happens only with full mesh topology. Port to port line rate traffic is not affected and no packet loss is seen. |                                               |

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| <b>Defect ID:</b> DEFECT000561541                                                                                                                                                                                                     | <b>Technical Severity:</b> High                   |
| <b>Reason Code:</b> Not Reproducible                                                                                                                                                                                                  | <b>Probability:</b> High                          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                    | <b>Technology Group:</b> Layer 2 Switching        |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                | <b>Technology:</b> xSTP - Spanning Tree Protocols |
| <b>Symptom:</b> Traffic loss may be seen for longer duration during RSTP reconvergence when link between core node routers is flapped.                                                                                                |                                                   |
| <b>Condition:</b> Only when multicast snooping is enabled along with RSTP on a scaled RSTP topology. Trigger for the issue is port flapping or port interface down between two core nodes where one of the nodes is RSTP root bridge. |                                                   |
| <b>Workaround:</b> 1) Configure root port as a multi-slot lag between the core nodes where one of the node is the root node. This will ensure that these are no easy link flaps.<br>2) Disable Multicast snooping.                    |                                                   |

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| <b>Defect ID:</b> DEFECT000561652                                                                                                                  | <b>Technical Severity:</b> Medium                           |
| <b>Reason Code:</b> Will Not Fix                                                                                                                   | <b>Probability:</b> Medium                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                 | <b>Technology Group:</b> MPLS                               |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                             | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> MAC resource leak in software may be seen rarely. The available free MAC entries in software may decrease faster than in hardware. |                                                             |
| <b>Condition:</b> Rarely occurs only with MCT VPLS configuration in CES/CER.                                                                       |                                                             |

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| <b>Defect ID:</b> DEFECT000562162                                                                                                                        | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Not Reproducible                                                                                                                     | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                       | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                   | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> While changing primary and disable/enable LAG ports, observed "Error - vldata_get_vport, next_free_vport_index 68166161" in console logs |                                                 |
| <b>Condition:</b> While changing primary and disable/enable LAG ports.                                                                                   |                                                 |

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| <b>Defect ID:</b> DEFECT000562959                                                          | <b>Technical Severity:</b> Medium                      |
| <b>Reason Code:</b> Not Reproducible                                                       | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                         | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                     | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Debug messages starting with [PRAM_FREE] may be seen on line card console. |                                                        |
| <b>Condition:</b> Only in algorithmic mode (X2 scale) during hitless upgrade operation.    |                                                        |

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| <b>Defect ID:</b> DEFECT000563189                                                                                                                | <b>Technical Severity:</b> Medium                      |
| <b>Reason Code:</b> Not Reproducible                                                                                                             | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                           | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> Displaying BGP neighbor output may sometime show the error: "Duplicate session added". There is no functionality loss or impact. |                                                        |
| <b>Condition:</b> Performing MP switch-over multiple times.                                                                                      |                                                        |

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| <b>Defect ID:</b> DEFECT000563192                                                                                              | <b>Technical Severity:</b> High                                          |
| <b>Reason Code:</b> Not Reproducible                                                                                           | <b>Probability:</b> Medium                                               |
| <b>Product:</b> Brocade NetIron OS                                                                                             | <b>Technology Group:</b> Layer 3 Routing/Network Layer                   |
| <b>Reported In Release:</b> NI 05.9.00                                                                                         | <b>Technology:</b> VRRPv2 - Virtual Router Redundancy Protocol Version 2 |
| <b>Symptom:</b> A Syslog -- "duplicate IP address on an interface" is observed.                                                |                                                                          |
| <b>Condition:</b> Issue will be observed when either a duplicate IP address is configured or a loop is present in the network. |                                                                          |
| <b>Recovery:</b> Remove the duplicate IP address configured or break the loop in the network.                                  |                                                                          |

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| <b>Defect ID:</b> DEFECT000563516                                                                                      | <b>Technical Severity:</b> High                             |
| <b>Reason Code:</b> Not Reproducible                                                                                   | <b>Probability:</b> High                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                     | <b>Technology Group:</b> Layer 3 Routing/Network Layer      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                 | <b>Technology:</b> BFD - BiDirectional Forwarding Detection |
| <b>Symptom:</b> ISIS neighbor flaps leading to traffic loss may be seen rarely.                                        |                                                             |
| <b>Condition:</b> When unconfiguring/configuring ISIS protocol, BFD session may flap shortly after ISIS is configured. |                                                             |

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| <b>Defect ID:</b> DEFECT000563805                                                                                                      | <b>Technical Severity:</b> Medium                        |
| <b>Reason Code:</b> Not Reproducible                                                                                                   | <b>Probability:</b> Low                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                     | <b>Technology Group:</b> IP Multicast                    |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                 | <b>Technology:</b> IPv4 Multicast VLAN Traffic Reduction |
| <b>Symptom:</b> Under rare condition, if FID exhaustion occurs, some of the flows may experience traffic loss.                         |                                                          |
| <b>Condition:</b> UPNP (Universal Plug and Play) protocol may pump at a high rate Multicast control packets resulting in this problem. |                                                          |
| <b>Workaround:</b> Block the UPNP requests using Multicast filters.                                                                    |                                                          |

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| <b>Defect ID:</b> DEFECT000563946                                                       | <b>Technical Severity:</b> High                          |
| <b>Reason Code:</b> Already Fixed in Release                                            | <b>Probability:</b> Medium                               |
| <b>Product:</b> Brocade NetIron OS                                                      | <b>Technology Group:</b> IP Multicast                    |
| <b>Reported In Release:</b> NI 05.6.00                                                  | <b>Technology:</b> IPv4 Multicast VLAN Traffic Reduction |
| <b>Symptom:</b> Multicast traffic impacted when VPLS snooping is enabled.               |                                                          |
| <b>Condition:</b> - Seen on CER<br>- Continuous joins and leaves and<br>- VPLS snooping |                                                          |

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| <b>Defect ID:</b> DEFECT000564005                                                                                                                                       | <b>Technical Severity:</b> Medium                            |
| <b>Reason Code:</b> Will Not Fix                                                                                                                                        | <b>Probability:</b> High                                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                      | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                  | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> With scaled ACL configuration snmpwalk on policy based accounting table may take longer than expected.                                                  |                                                              |
| <b>Condition:</b> May occur only when a duplicate (scaled) ACL configuration is applied and SNMP walk is issued while the ACL configuration update is still in process. |                                                              |
| <b>Workaround:</b> Avoid issuing snmpwalk command during ACL configuration update                                                                                       |                                                              |

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| <b>Defect ID:</b> DEFECT000564058                                                                                                                                    | <b>Technical Severity:</b> High                 |
| <b>Reason Code:</b> Not Reproducible                                                                                                                                 | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                   | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                               | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> CCEP flapping with high LP CPU may be seen, when a 24x10G card is reset using CLI command, with multi-slot CCEP LAG configuration in Dual-MCT setup. |                                                 |
| <b>Condition:</b> In Dual MCT setup with multi-slot CCEP LAG configured on 24x10G cards                                                                              |                                                 |

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| <b>Defect ID:</b> DEFECT000564316                                                                                                                            | <b>Technical Severity:</b> High                        |
| <b>Reason Code:</b> Will Not Fix                                                                                                                             | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                           | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                       | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Ping may fail on a 10Gx24 line card when an OpenFlow hybrid port is configured on an unprotected VLAN.                                       |                                                        |
| <b>Condition:</b> Hybrid OpenFlow and VE interface configured on an unprotected VLAN. The unprotected VLAN PASS entries are not created on OpenFlow ACL cam. |                                                        |
| <b>Workaround:</b> Change the configuration from an unprotected VLAN to a protected VLAN on those ports                                                      |                                                        |

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| <b>Defect ID:</b> DEFECT000564805                                                                               | <b>Technical Severity:</b> Medium            |
| <b>Reason Code:</b> Not Reproducible                                                                            | <b>Probability:</b> High                     |
| <b>Product:</b> Brocade NetIron OS                                                                              | <b>Technology Group:</b> Traffic Management  |
| <b>Reported In Release:</b> NI 05.9.00                                                                          | <b>Technology:</b> Rate Limiting and Shaping |
| <b>Symptom:</b> Traffic loss may occur on a 100Gx2 line card when configuring the inbound port base rate limit. |                                              |
| <b>Condition:</b> Only if configuring inbound rate limit on a 100Gx2 line card.                                 |                                              |
| <b>Recovery:</b> Use another type of line card.                                                                 |                                              |

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| <b>Defect ID:</b> DEFECT000564808                                                                                                         | <b>Technical Severity:</b> High               |
| <b>Reason Code:</b> Not Reproducible                                                                                                      | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                        | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                    | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> High LP CPU usage may be seen due to routing table download.                                                              |                                               |
| <b>Condition:</b> When importing more routes to a VRF via inter-vrf leaking, causing the receiving VRF's route table to run out of space. |                                               |
| <b>Workaround:</b> Use route-map to limit the number of routes imported to a VRF in the inter-vrf leaking configuration.                  |                                               |
| <b>Recovery:</b> Clear ip route table for the VRF.                                                                                        |                                               |

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| <b>Defect ID:</b> DEFECT000564830                                                                | <b>Technical Severity:</b> High        |
| <b>Reason Code:</b> Not Reproducible                                                             | <b>Probability:</b> Low                |
| <b>Product:</b> Brocade NetIron OS                                                               | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                           | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> IPsec Tunnel status may be down on the Management Module.                        |                                        |
| <b>Condition:</b> When the tunnel outgoing port changes from one Line Card to another Line Card. |                                        |
| <b>Workaround:</b> Avoid changing of tunnel outgoing port to another Line Card.                  |                                        |
| <b>Recovery:</b> Clear or reset the affected tunnel.                                             |                                        |

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| <b>Defect ID:</b> DEFECT000564957                                                                                                                                                                                                                                                          | <b>Technical Severity:</b> High                        |
| <b>Reason Code:</b> Not Reproducible                                                                                                                                                                                                                                                       | <b>Probability:</b> Low                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                         | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                     | <b>Technology:</b> Static Routing (IPv6)               |
| <b>Symptom:</b> MP might reload unexpectedly on issuing the command "itc show queue 11".                                                                                                                                                                                                   |                                                        |
| <b>Condition:</b> In a topology with the following characteristics:<br>--- IP Sec tunnels in default VRF and underlying interface is using non-default VRF.<br>--- There are 121 IPsec tunnels configured between two routers<br>--- There are 100 ipv6 IPsec tunnels between two routers. |                                                        |
| If syslog reports for low buffers, then issuing command "itc show queue 11" might cause MP reload.                                                                                                                                                                                         |                                                        |

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| <b>Defect ID:</b> DEFECT000565223                                                                                                                              | <b>Technical Severity:</b> Medium             |
| <b>Reason Code:</b> Feature/Function Not Supported                                                                                                             | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                             | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                         | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> "ERROR: command not supported for this type of card" may be seen when downgrading from 5.9.00 to 5.6.00f. There is no impact to functionality. |                                               |
| <b>Condition:</b> Downgrade system software from 5.9.00 to 5.6.00f.                                                                                            |                                               |

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| <b>Defect ID:</b> DEFECT000565395                                                                                                                                                                                                                               | <b>Technical Severity:</b> High                        |
| <b>Reason Code:</b> Not Reproducible                                                                                                                                                                                                                            | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                              | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                          | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> When a BGP router sends a withdraw update message for a set of routes, the peer BGP router receiving this withdrawn message will not clear these routes; instead peer will marks them as dampened routes and will clear them after 180 minutes. |                                                        |
| <b>Condition:</b> BGP routes are not getting cleared as they are getting withdrawn.                                                                                                                                                                             |                                                        |
| <b>Workaround:</b> The dampened routes are not included in best route calculation and will not be advertised. "clear ip bgp dampening" can be used to clear the dampened routes.                                                                                |                                                        |

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| <b>Defect ID:</b> DEFECT000565409                                                     | <b>Technical Severity:</b> High        |
| <b>Reason Code:</b> Not Reproducible                                                  | <b>Probability:</b> Low                |
| <b>Product:</b> Brocade NetIron OS                                                    | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> IPsec tunnels may stay in down state after the Line card is reloaded. |                                        |
| <b>Condition:</b> Reload the Line card module of a remote IPsec peer.                 |                                        |
| <b>Recovery:</b> Clear or reset the affected IPsec tunnels.                           |                                        |

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| <b>Defect ID:</b> DEFECT000565437                                                                                                                                              | <b>Technical Severity:</b> High        |
| <b>Reason Code:</b> Not Reproducible                                                                                                                                           | <b>Probability:</b> Low                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                             | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                         | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> Traffic for one of the IPv6 prefix may be sent out on the wrong IPsec tunnel if that prefix is reachable through a static route and is learnt via IGP as well. |                                        |
| <b>Condition:</b> In IPv6 IPsec double encryption configuration;<br>IPv6 prefix reachable through static route and learnt via IGP                                              |                                        |

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| <b>Defect ID:</b> DEFECT000565487                                                                         | <b>Technical Severity:</b> High             |
| <b>Reason Code:</b> Not Reproducible                                                                      | <b>Probability:</b> High                    |
| <b>Product:</b> Brocade NetIron OS                                                                        | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 05.9.00                                                                    | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> Unexpected system reload may be seen when slot was removed in highly scaled MPLS network. |                                             |
| <b>Condition:</b> Only if multiple protocols are scaled including MPLS and in a rare timing window.       |                                             |

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| <b>Defect ID:</b> DEFECT000565571                                                      | <b>Technical Severity:</b> High           |
| <b>Reason Code:</b> Not Reproducible                                                   | <b>Probability:</b> Low                   |
| <b>Product:</b> Brocade NetIron OS                                                     | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.9.00                                                 | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Loss of traffic may be seen on specific VRF post reload of the device. |                                           |
| <b>Condition:</b> In scaled set-up when reload is performed.                           |                                           |
| <b>Recovery:</b> Clear the multicast entries using "clear ip pim mc" command.          |                                           |

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| <b>Defect ID:</b> DEFECT000565843                                                                                        | <b>Technical Severity:</b> High                        |
| <b>Reason Code:</b> Already Fixed in Release                                                                             | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                       | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                                                   | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Salt value associated with the IPsec encryption key may be displayed as zero.                            |                                                        |
| <b>Condition:</b> May be seen when AES-GCM-128 algorithm is used for encryption/decryption of packets over IPsec tunnel. |                                                        |

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| <b>Defect ID:</b> DEFECT000566036                                                                                                                                                                                                                                                                         | <b>Technical Severity:</b> High               |
| <b>Reason Code:</b> Not Reproducible                                                                                                                                                                                                                                                                      | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                        | <b>Technology Group:</b> Management           |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                    | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> 20x10G and 8x10G OIR (Online Insertion/Removal) may make TM CPU Queue stuck forever causing VPLS MAC learning to break.                                                                                                                                                                   |                                               |
| <b>Condition:</b> When MPLS L3VPN, 6VPE, VPLS traffic running on 20x10G and 8x10G modules and LP OIR is performed for either of these modules, the TM CPU Queue may get stuck.                                                                                                                            |                                               |
| <b>Recovery:</b> To find out stuck queue:<br>MP#show tm non-empty-queue<br>To recover, the stuck TM CPU queue needs to be flushed once as instructed below:<br>LP#dm tm auto-credit <device-id> 1000 <queue-id> <queue-id><br>After a minute:<br>LP#dm tm auto-credit <device-id> 0 <queue-id> <queue-id> |                                               |

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| <b>Defect ID:</b> DEFECT000566210                                                         | <b>Technical Severity:</b> High                        |
| <b>Reason Code:</b> Not Reproducible                                                      | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                        | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                    | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> The router restarts sometime.                                             |                                                        |
| <b>Condition:</b> Simultaneous flapping of multiple interfaces manually through a script. |                                                        |

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| <b>Defect ID:</b> DEFECT000566355                                                                     | <b>Technical Severity:</b> High |
| <b>Reason Code:</b> Not Reproducible                                                                  | <b>Probability:</b> Low         |
| <b>Product:</b> Brocade NetIron OS                                                                    | <b>Technology Group:</b> SDN    |
| <b>Reported In Release:</b> NI 05.9.00                                                                | <b>Technology:</b> OpenFlow     |
| <b>Symptom:</b> MLX device resets very rarely upon addition/removal of large number of OpenFlow flows |                                 |
| <b>Condition:</b> Continuous Flow addition/removal for a large period of time(3-4 days)               |                                 |
| <b>Workaround:</b> Issue is not seen in 6.0 release                                                   |                                 |
| <b>Recovery:</b> Issue is not seen in 6.0 release                                                     |                                 |

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| <b>Defect ID:</b> DEFECT000566513                                              | <b>Technical Severity:</b> High                   |
| <b>Reason Code:</b> Already Fixed in Release                                   | <b>Probability:</b> High                          |
| <b>Product:</b> Brocade NetIron OS                                             | <b>Technology Group:</b> MPLS                     |
| <b>Reported In Release:</b> NI 05.6.00                                         | <b>Technology:</b> MPLS VLL - Virtual Leased Line |
| <b>Symptom:</b> The System may reload while performing Switchover.             |                                                   |
| <b>Condition:</b> 1. MPLS traffic should be running.<br>2. Switchover is done. |                                                   |

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| <b>Defect ID:</b> DEFECT000567517                                                                          | <b>Technical Severity:</b> High       |
| <b>Reason Code:</b> Not Reproducible                                                                       | <b>Probability:</b> Low               |
| <b>Product:</b> Brocade NetIron OS                                                                         | <b>Technology Group:</b> Security     |
| <b>Reported In Release:</b> NI 05.8.00                                                                     | <b>Technology:</b> SSH - Secure Shell |
| <b>Symptom:</b> Device may unexpectedly reload when a SSH client is attempting to login to it.             |                                       |
| <b>Condition:</b> Continuous attempts (more than 200 times) to login with bad username/password using SSH. |                                       |
| <b>Workaround:</b> User may block the source that is attempting to login with bad credentials.             |                                       |

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| <b>Defect ID:</b> DEFECT000569860                                                                                                                                       | <b>Technical Severity:</b> Medium                             |
| <b>Reason Code:</b> Will Not Fix                                                                                                                                        | <b>Probability:</b> High                                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                      | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                  | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> Auto-negotiation not complete syslog is generated twice in a specific auto-negotiation configurations with MACsec enabled; only one syslog is expected. |                                                               |
| <b>Condition:</b> MACsec is enabled on the port.<br>Auto-negotiation is disabled state at both local and remote devices.<br>Enable auto-negotiation at local-device.    |                                                               |

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| <b>Defect ID:</b> DEFECT000570731                                                                                                             | <b>Technical Severity:</b> High                 |
| <b>Reason Code:</b> Will Not Fix                                                                                                              | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                            | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                        | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> On 20x10G Line card module high CPU condition could be seen when the command "no route-only" is enabled.                      |                                                 |
| <b>Condition:</b> "no route-only" option is enabled when there is a LAG spanning across multiple ports on the same 20 x 10G Line card module. |                                                 |

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| <b>Defect ID:</b> DEFECT000571753                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technical Severity:</b> High                 |
| <b>Reason Code:</b> Will Not Fix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> CLI returns the error "Invalid Input" when an IP/IPv6 ACL deny filter is being configured in the IP/IPv6 ACL configuration mode.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 |
| <b>Condition:</b> The issue is seen when a decimal is used that is equal in value to that of any of the valid Keywords. For ex: Keyword "tcp" is associated with a value of 6. If the same number is inputted in the command line as<br>deny 6 a.b.c.d a.b.c.e eq 50120 log<br>The error is seen since the optional keyword "eq" is not available in "<decimal>" node.<br>Note:<br>Although an error message is displayed, the command will get stored in the configuration using the associated keyword matching with number. In this case it would get stored as<br>deny tcp a.b.c.d a.b.c.e eq 50120 log. |                                                 |
| <b>Workaround:</b> Use appropriate keyword for the deny filters instead of its decimal equivalent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |

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| <b>Defect ID:</b> DEFECT000572448                                                                                                                                     | <b>Technical Severity:</b> Medium                                        |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                          | <b>Probability:</b> High                                                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                    | <b>Technology Group:</b> Layer 3 Routing/Network Layer                   |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                | <b>Technology:</b> VRRPv2 - Virtual Router Redundancy Protocol Version 2 |
| <b>Symptom:</b> customers may observe message similar to the one given below on active Management Module during switchover:<br><br>VRRP4: eth 1/1 down event received |                                                                          |
| <b>Condition:</b> (1) VRRP is configured<br>(2) Switchover is initiated                                                                                               |                                                                          |

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| <b>Defect ID:</b> DEFECT000572825                                                                                                                                                                                           | <b>Technical Severity:</b> High                 |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                                                                                | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                          | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                                      | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> In a MCT setup : -<br>1) Traffic loss after switchover<br>2) Missing "deploy" keyword/configuration in "show cluster configuration" on the MCT cluster node on which Management module switchover was done. |                                                 |
| <b>Condition:</b> Management module switchover on one of the MCT cluster nodes.                                                                                                                                             |                                                 |
| <b>Workaround:</b> 1) Save startup-config by using "write memory" command<br>2) Issue the command "sync-standby" before Switchover                                                                                          |                                                 |

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| <b>Defect ID:</b> DEFECT000573260                                                                                                                                                      | <b>Technical Severity:</b> High                        |
| <b>Reason Code:</b> Feature/Function Not Supported                                                                                                                                     | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                     | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.4.00                                                                                                                                                 | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> When pinging a device directly connected to the CES from a host several router hops away, the ping traffic gets stuck in a routing loop.                               |                                                        |
| <b>Condition:</b> On CER/CES platform, with non-major network subnets (subnets that are not /8, /16, /24 or /32) present in network with 100s of hosts directly connected to the node. |                                                        |
| <b>Recovery:</b> clear ip ospf route all                                                                                                                                               |                                                        |



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| <b>Defect ID:</b> DEFECT000573265                                                                                                                        | <b>Technical Severity:</b> High                 |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                             | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                       | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                   | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> On ICL flap, VPLS does not come up on MCT L2VPN peer.<br>"show mpls vpls <>" show the cluster peer state as "MCT Peering Time-out State" |                                                 |
| <b>Condition:</b> On scaled MCT L2VPN environment (around 2000 VPLS instances and 70K MACs), ICL port flap can cause some VPLS instances not to comeup   |                                                 |
| <b>Recovery:</b> "clear cluster <>" CLI, clears the problem.                                                                                             |                                                 |

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| <b>Defect ID:</b> DEFECT000573553                                                                                                                                                                           | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                                                                | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                          | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                      | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Below error message will be seen when undeploying the cluster and configuring active-passive mode for cluster.<br>"Error - Cannot change MCT mode for cluster id = 1 when cluster deployed" |                                                 |
| <b>Condition:</b> Undeploy the cluster and configure active-passive mode for cluster                                                                                                                        |                                                 |

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| <b>Defect ID:</b> DEFECT000573690                                                                                                                     | <b>Technical Severity:</b> High                 |
| <b>Reason Code:</b> Feature/Function Not Supported                                                                                                    | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                    | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> The following messages scrolling on telnet/ssh/console session :<br>"SAT Error: itc_scp_check_snm - itc_send_request() failed ret[8]" |                                                 |
| <b>Condition:</b> On MLX, continuous CCEP and ICL flaps on MCT L2VPN scaled environment (2000 VPLS instances with 70K MACs).                          |                                                 |

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| <b>Defect ID:</b> DEFECT000574287                                                                   | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Already Fixed in Release                                                        | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                  | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                              | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> MACs are not relearned after the command "clear mac vpls eth <mod/port>" is issued. |                                                 |
| <b>Condition:</b> This is not applicable to NI5.9 and later releases.                               |                                                 |
| <b>Workaround:</b> "clear mac vpls id <>" to clear and relearn the MACs.                            |                                                 |

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| <b>Defect ID:</b> DEFECT000575239                                                                                        | <b>Technical Severity:</b> Medium |
| <b>Reason Code:</b> Already Fixed in Release                                                                             | <b>Probability:</b> High          |
| <b>Product:</b> Brocade NetIron OS                                                                                       | <b>Technology Group:</b> SDN      |
| <b>Reported In Release:</b> NI 05.7.00                                                                                   | <b>Technology:</b> OpenFlow       |
| <b>Symptom:</b> Router reload while adding OpenFlow flows from an OpenFlow controller.                                   |                                   |
| <b>Condition:</b> OpenFlow enabled and new flow-add request has both Send to controller and VLAN Push/Pop/Modify action. |                                   |

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| <b>Defect ID:</b> DEFECT000575527                                                                                                                                                                           | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                                                                | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                          | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                      | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> When client-interfaces are shut, "show cluster" shows "Peer State: CCP Down (Reason for Down: Graceful upgrade in progress)". The reason displayed is wrong. There is no functional impact. |                                                 |
| <b>Condition:</b> Seen in an MCT setup when client interfaces are shutdown administratively using the "client-interfaces shutdown" command                                                                  |                                                 |

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| <b>Defect ID:</b> DEFECT000575926                                                                                                                                                                                                                  | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                                                                                                       | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                 | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                             | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Unwanted debug print messages related to enabling MCT clients interfaces will be seen in console while the device is reloaded with MCT configurations in place. The messages will be seen right after bring up of the CCP session. |                                                 |
| <b>Condition:</b> The unwanted messages will be seen with MCT configurations in place and while rebooting the Node.                                                                                                                                |                                                 |
| <b>Workaround:</b> There is no work around available.                                                                                                                                                                                              |                                                 |
| <b>Recovery:</b> Unwanted messages will NOT cause any functional impact.                                                                                                                                                                           |                                                 |

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| <b>Defect ID:</b> DEFECT000576701                                                    | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Feature/Function Not Supported                                   | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                   | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                               | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> "No deploy" of MCT L2VPN cluster does not work at times              |                                                 |
| <b>Condition:</b> On scaled MCT L2VPN environment, with around 2000 VPLS instances.  |                                                 |
| <b>Workaround:</b> Wait for around 30 seconds after no deploy on scaled environment. |                                                 |

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| <b>Defect ID:</b> DEFECT000576911                                                                                                                                   | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Design Limitation                                                                                                                               | <b>Probability:</b> Low                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                  | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                              | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> "show tech-support l4 acl <specific name> " output from console does not show all ACL entries.                                                      |                                                 |
| <b>Condition:</b> When more than 1700 ACLs are configured on the device and console session is used to execute ""show tech-support l4 acl <specific name> " command |                                                 |
| <b>Workaround:</b> Use Telnet/SSH to execute "show tech-support l4 acl <specific name> " command                                                                    |                                                 |

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| <b>Defect ID:</b> DEFECT000577144                                                                                                                       | <b>Technical Severity:</b> Medium                             |
| <b>Reason Code:</b> Will Not Fix                                                                                                                        | <b>Probability:</b> High                                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                      | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                  | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> 8x10G-X card fails to come Up online.<br>Shows different status messages each time after restart of module, reseal or reload of chassis |                                                               |
| <b>Condition:</b> NA                                                                                                                                    |                                                               |

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| <b>Defect ID:</b> DEFECT000577652                                                                                                                          | <b>Technical Severity:</b> Low                  |
| <b>Reason Code:</b> Will Not Fix                                                                                                                           | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                         | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                     | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Cluster FSM messages are seen in log. These messages are harmless.                                                                         |                                                 |
| <b>Condition:</b> Messages such as "CLUSTER FSM: Error: Received CCP event when cluster 0x00000001 is not deployed" are observed during various MCT events |                                                 |

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| <b>Defect ID:</b> DEFECT000578097                                                                                              | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Will Not Fix                                                                                               | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                             | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.6.00                                                                                         | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Closing pattern/prompt ")#" is missing from the VPLS config mode.                                              |                                                 |
| <b>Condition:</b> Configure VPLS instance name with length greater than 128 characters and press Enter to complete the command |                                                 |
| Note: Applicable only for releases 5.7x and lower versions                                                                     |                                                 |
| <b>Workaround:</b> Avoid configuring VPLS instance name with length greater than 128 characters                                |                                                 |

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| <b>Defect ID:</b> DEFECT000578870                                                                                                                | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Will Not Fix                                                                                                                 | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                               | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                           | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> CES/CER nodes may incorrectly send back broadcast packets received from the ICL port to the newly added member port in CCEP LAG. |                                                 |
| <b>Condition:</b> Adding a new member port to a deployed CCEP LAG.                                                                               |                                                 |
| <b>Workaround:</b> (1) Disable the primary port<br>(2) Add the member port to the deployed LAG<br>(3) Enable primary port                        |                                                 |
| <b>Recovery:</b> Deploy and undeploy the LAG.                                                                                                    |                                                 |

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| <b>Defect ID:</b> DEFECT000579896                                                                                                                                                                                                                                                | <b>Technical Severity:</b> High                |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                                                                                                                                     | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                               | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                           | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> After Management Module switch-over occurs more than once, traffic doesn't get filtered as per the applied L2 ACL based rate-limiting binding on interface. Also, L2 ACL based rate-limiting counters don't display correct values as per the traffic filtering. |                                                |
| <b>Condition:</b> When an active management module fails over to a standby management module or when a "switchover" command is entered manually, from the second failover onwards, the ACL based rate-limiting CAM entries aren't programmed as per the actual ACL definition.   |                                                |

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| <b>Defect ID:</b> DEFECT000580586                                                                                                                 | <b>Technical Severity:</b> High                 |
| <b>Reason Code:</b> Will Not Fix                                                                                                                  | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                            | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Observing "ITC not successful" error in CLI while disabling and enabling of loop back interface.                                  |                                                 |
| <b>Condition:</b> Disabling and enabling of loop back interface several times with in a short span of time with highly scaled VPLS/VLL instances. |                                                 |

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| <b>Defect ID:</b> DEFECT000581125                                                                                                                                                              | <b>Technical Severity:</b> High                      |
| <b>Reason Code:</b> Design Limitation                                                                                                                                                          | <b>Probability:</b> High                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                             | <b>Technology Group:</b> MPLS                        |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                         | <b>Technology:</b> LDP - Label Distribution Protocol |
| <b>Symptom:</b> In a router configured with heavy BGP routes (~100k) with aggressive BFD configuration for IGP protocol; LDP sessions may flap if the user executes clear ip bgp neighbor all. |                                                      |
| <b>Condition:</b> The condition includes a very high scale BGP configuration, BFD, and LDP; in combination with user execution of 'clear ip bgp neighbor all'                                  |                                                      |

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| <b>Defect ID:</b> DEFECT000581687                                                                                                                                                                                                             | <b>Technical Severity:</b> High |
| <b>Reason Code:</b> Design Limitation                                                                                                                                                                                                         | <b>Probability:</b> High        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                            | <b>Technology Group:</b> MPLS   |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                        | <b>Technology:</b> BGP/MPLS VPN |
| <b>Symptom:</b> On clearing statistics of all MPLS tunnels, High LP CPU utilization will be observed and timeout message will be displayed in the console. LP CPU utilization will return to normal after clearing all the tunnel statistics. |                                 |
| <b>Condition:</b> When there are more than 4K MPLS LSP tunnels and 4K IP nexthops entries.                                                                                                                                                    |                                 |

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| <b>Defect ID:</b> DEFECT000582617                                                         | <b>Technical Severity:</b> High |
| <b>Reason Code:</b> Already Fixed in Release                                              | <b>Probability:</b> High        |
| <b>Product:</b> Brocade NetIron OS                                                        | <b>Technology Group:</b> SDN    |
| <b>Reported In Release:</b> NI 05.8.00                                                    | <b>Technology:</b> OpenFlow     |
| <b>Symptom:</b> Action list gets corrupted for already installed flows with Normal action |                                 |
| <b>Condition:</b> After a power-off followed by power-on of Line card.                    |                                 |
| <b>Recovery:</b> Remove and add the flows again.                                          |                                 |

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| <b>Defect ID:</b> DEFECT000582982                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technical Severity:</b> High                                        |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> Medium                                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Technology Group:</b> Monitoring                                    |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Technology:</b> RAS - Reliability, Availability, and Serviceability |
| <b>Symptom:</b> Active management module in MLX may reload unexpectedly and switch over to the standby management module if available. The below mentioned stack trace could be seen in the dump: -<br><br>Possible Stack Trace (function call return address list)<br>00005008: xsyscall(pc)<br>00056194: bm_alloc(lr)<br>00055d14: bm_alloc<br>0005cc94: gt6446x_eth_receive_handler<br>0005d230: gt6446x_eth_isr<br>00027234: handle_interrupt<br>0001b69c: sysloop<br>000b7dfc: handler |                                                                        |
| <b>Condition:</b> When huge burst of Management Module CPU bound traffic is received                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                        |

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| <b>Defect ID:</b> DEFECT000584620                                                                                                                                                                                                         | <b>Technical Severity:</b> Medium |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                                                                                              | <b>Probability:</b> High          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                        | <b>Technology Group:</b> SDN      |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                    | <b>Technology:</b> OpenFlow       |
| <b>Symptom:</b> Push an OpenFlow rule with action as send to controller.<br>Reload Line card which holds the OpenFlow rule. After the line card is operational, the packets are not forwarded to controller though traffic hits the flow. |                                   |
| <b>Condition:</b> In case of reload of line card, the Line card will be programmed with the OpenFlow rule. In case of send to controller action OpenFlow rule, the programming went wrong which caused to packets to get dropped.         |                                   |

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| <b>Defect ID:</b> DEFECT000585720                                                                                                                                                                              | <b>Technical Severity:</b> High        |
| <b>Reason Code:</b> Feature/Function Not Supported                                                                                                                                                             | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                             | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                         | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Syslog message similar to the one mentioned below may be reported :<br>"PRAM free: slot 5 XPP20SP 0 0x0007f5b3 0x00000001"<br><br>In some cases Traffic Forwarding could be impacted.          |                                        |
| <b>Condition:</b> A message is logged when any violation is reported during the PRAM monitoring which could be indicative of double free of a PRAM index or Freeing of a PRAM index which is currently in use. |                                        |

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| <b>Defect ID:</b> DEFECT000592923                                                         | <b>Technical Severity:</b> High     |
| <b>Reason Code:</b> Feature/Function Not Supported                                        | <b>Probability:</b> Low             |
| <b>Product:</b> Brocade NetIron OS                                                        | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.9.00                                                    | <b>Technology:</b> sFlow            |
| <b>Symptom:</b> Port based sFlow statistics don't increment as per the monitored traffic. |                                     |
| <b>Condition:</b> Enables sFlow monitoring on interface.                                  |                                     |

## Known Issues

This section lists open software defects with Critical, High, and Medium Technical Severity as of 4/25/2016 in NI 6.0.00. This list was updated 5/26/16.

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| <b>Defect ID:</b> DEFECT000518506                                                                                                                                                                  |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                    | <b>Probability:</b> High                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                 | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                             | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> FRR Failover takes more than 70 secs to converge on bringing down the transit link.<br>Packet drops observed when FRR 10K and 20K LSPs failover by bringing down the transit link. |                                                        |
| <b>Condition:</b> FRR failover by bringing down the transit link.                                                                                                                                  |                                                        |

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| <b>Defect ID:</b> DEFECT000551348                                                                                                                         |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                         | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                        | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                    | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> While configuring BFD or changing BFD timers, the user might see unexpected values for CFM 1-DM sessions specifically on CES/CER devices. |                                                        |
| <b>Condition:</b> CES/CER User deployment where BFD and CFM 1-DM are in use.                                                                              |                                                        |
| <b>Recovery:</b> The only way to recover is resetting of device.                                                                                          |                                                        |

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| <b>Defect ID:</b> DEFECT000562915                                              |                                           |
| <b>Technical Severity:</b> Medium                                              | <b>Probability:</b> High                  |
| <b>Product:</b> Brocade NetIron OS                                             | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.9.00                                         | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Transient multicast traffic loss during first time switchover. |                                           |
| <b>Condition:</b> Traffic loss is seen only when first time failover happens.  |                                           |

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| <b>Defect ID:</b> DEFECT000566837                                                                                            |                                                    |
| <b>Technical Severity:</b> Medium                                                                                            | <b>Probability:</b> High                           |
| <b>Product:</b> Brocade NetIron OS                                                                                           | <b>Technology Group:</b> Traffic Management        |
| <b>Reported In Release:</b> NI 05.2.00                                                                                       | <b>Technology:</b> Traffic Queueing and Scheduling |
| <b>Symptom:</b> Jitter is outside acceptable limits for voice traffic.                                                       |                                                    |
| <b>Condition:</b> Seen on Gen2 (BR-MLX-10Gx8-M or -X and BR-LMX-100Gx1-X or x2-X)<br>Line cards with low throughput traffic. |                                                    |

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| <b>Defect ID:</b> DEFECT000575538                                                                                 |                                                              |
| <b>Technical Severity:</b> Medium                                                                                 | <b>Probability:</b> Medium                                   |
| <b>Product:</b> Brocade NetIron OS                                                                                | <b>Technology Group:</b> Management                          |
| <b>Reported In Release:</b> NI 05.6.00                                                                            | <b>Technology:</b> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> When issuing SNMP walk for lldpRemTable, some of the LLDP neighbors object will not be displayed. |                                                              |
| <b>Condition:</b> When any of the objects under the table "lldpRemTable" are not configured.                      |                                                              |

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| <b>Defect ID:</b> DEFECT000575987                           |                              |
| <b>Technical Severity:</b> High                             | <b>Probability:</b> High     |
| <b>Product:</b> Brocade NetIron OS                          | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 05.9.00                      | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> OpenFlow scale numbers are not up to 64k.   |                              |
| <b>Condition:</b> Specific to Management Module type MR2-X. |                              |

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| <b>Defect ID:</b> DEFECT000577783                                     |                                                                        |
| <b>Technical Severity:</b> High                                       | <b>Probability:</b> Medium                                             |
| <b>Product:</b> Brocade NetIron OS                                    | <b>Technology Group:</b> Monitoring                                    |
| <b>Reported In Release:</b> NI 05.7.00                                | <b>Technology:</b> RAS - Reliability, Availability, and Serviceability |
| <b>Symptom:</b> Port on 100Gx2-CFP2 Line card module may not come up. |                                                                        |
| <b>Condition:</b> Remote end CFP2 optic is removed and re-inserted.   |                                                                        |
| <b>Recovery:</b> Disable and enable the port on remote end.           |                                                                        |

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| <b>Defect ID:</b> DEFECT000578252                                                                                                                |                                            |
| <b>Technical Severity:</b> High                                                                                                                  | <b>Probability:</b> High                   |
| <b>Product:</b> Brocade NetIron OS                                                                                                               | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                           | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> Flapping of VLL                                                                                                                  |                                            |
| <b>Condition:</b> When vrf is moved from one interface to another interface belonging to different PPCR.                                         |                                            |
| <b>Workaround:</b> While moving vrf from one interface to another belonging to different ppcr, disable both the interface and then move the vrf. |                                            |

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| <b>Defect ID:</b> DEFECT000578821                                      |                                        |
| <b>Technical Severity:</b> Medium                                      | <b>Probability:</b> Low                |
| <b>Product:</b> Brocade NetIron OS                                     | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.7.00                                 | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> 100G CFP2 port goes down and LED may still glow green. |                                        |
| <b>Condition:</b> 100G CFP2 port status is down on both sides.         |                                        |

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| <b>Defect ID:</b> DEFECT000579366                                                                                                   |                                                               |
| <b>Technical Severity:</b> Medium                                                                                                   | <b>Probability:</b> Medium                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                  | <b>Technology Group:</b> Network Automation and Orchestration |
| <b>Reported In Release:</b> NI 05.8.00                                                                                              | <b>Technology:</b> OpenStack Integration                      |
| <b>Symptom:</b> PAUSE frames received on an interface are not honored even though "flow-control rx-pause-ignore" is not configured. |                                                               |
| <b>Condition:</b> When "no flow-control" is configured at interface level.                                                          |                                                               |
| <b>Workaround:</b> Apply "no flow-control rx-pause-ignore" at interface level                                                       |                                                               |

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| <b>Defect ID:</b> DEFECT000579744                                                                                                           |                                                 |
| <b>Technical Severity:</b> High                                                                                                             | <b>Probability:</b> Low                         |
| <b>Product:</b> Brocade NetIron OS                                                                                                          | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                      | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Management Module may reload unexpectedly while executing concurrent show commands from multiple sessions like TELNET, SSH. |                                                 |
| <b>Condition:</b> Multiple show commands should be executed from different sessions while a "write memory" command is executed.             |                                                 |
| Example: "show lag", "show ip ospf interface", "show ipv6 bgp summary"                                                                      |                                                 |

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| <b>Defect ID:</b> DEFECT000580123                                                                                                                                                                |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                  | <b>Probability:</b> Low                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                           | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> Under rare circumstances, multiple switch over of Management module done back to back, could result in some of the BGP sessions flapping once or twice.                          |                                                        |
| <b>Condition:</b> Multiple switch over of the Management Module done back to back on a router that has configuration of the following scale: -<br>- 100+ IBGP neighbors<br>- 100+ EBGP neighbors |                                                        |

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| <b>Defect ID:</b> DEFECT000581204                                                                                                                     |                                                          |
| <b>Technical Severity:</b> Medium                                                                                                                     | <b>Probability:</b> Medium                               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                    | <b>Technology Group:</b> Monitoring                      |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                | <b>Technology:</b> OAM - Operations, Admin & Maintenance |
| <b>Symptom:</b> Link of 100Gx2-CFP2 LR4 interface may go down                                                                                         |                                                          |
| <b>Condition:</b> 1. When the RX side of the cable connected to remote end was removed.<br>2. When the remote end device is Infinera WDM/DTN-X device |                                                          |
| <b>Recovery:</b> Remove and Re-insert of the TX cable from the remote end.                                                                            |                                                          |

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| <b>Defect ID:</b> DEFECT000583134                                                                         |                                                |
| <b>Technical Severity:</b> Medium                                                                         | <b>Probability:</b> High                       |
| <b>Product:</b> Brocade NetIron OS                                                                        | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 06.0.00                                                                    | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> When IPv6 ACL is applied on a VEoVPLS interface, deny Logging syslog aren't generated.    |                                                |
| <b>Condition:</b> IPv6 ACL deny logging doesn't generate any syslogs when applied on a VEoVPLS interface. |                                                |

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| <b>Defect ID:</b> DEFECT000584408                                                                                                                                                                                 |                                                |
| <b>Technical Severity:</b> High                                                                                                                                                                                   | <b>Probability:</b> Low                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                            | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> During system bootup, when MP configuration is being synchronized to all LPs, one or more of the LPs go for an unexpected reload with scaled number of ACLs and PBR bound to multiple interfaces. |                                                |
| <b>Condition:</b> This problem can be seen In a system with scaled number of ACLs configured and PBR bound to multiple interfaces on multiple LPs.                                                                |                                                |

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| <b>Defect ID:</b> DEFECT000586053                                                                                                                                                                                                                                                                                                            |                                                |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                              | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                           | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                       | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> ACL Rules fail to sync from management module to a few of the line cards with scaled configuration of MAC/IPv4/IPv6 ACLs.                                                                                                                                                                                                    |                                                |
| <b>Condition:</b> When user configures a scaled number of MAC/IPv4/IPv6 ACLs, Management module takes significant amount of time to complete synchronization of the configuration to all the Line cards. In rare conditions, the synchronization of configurations can fail resulting in the ACL configuration not present in the Line card. |                                                |



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| <b>Defect ID:</b> DEFECT000586070                                                                           |                                                             |
| <b>Technical Severity:</b> High                                                                             | <b>Probability:</b> High                                    |
| <b>Product:</b> Brocade NetIron OS                                                                          | <b>Technology Group:</b> MPLS                               |
| <b>Reported In Release:</b> NI 05.9.00                                                                      | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> Mac-address seen to loop between local interface and remote interfaces towards MCT cluster. |                                                             |
| <b>Condition:</b> On CER, MCT VPLS with CoS configuration in LSP.                                           |                                                             |
| <b>Workaround:</b> Issue will not be seen if CoS configuration is not present in LSP.                       |                                                             |

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| <b>Defect ID:</b> DEFECT000587054                                                                   |                                        |
| <b>Technical Severity:</b> High                                                                     | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                  | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.7.00                                                              | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> In certain configuration, a 100G interface may not come up in an operational state. |                                        |
| <b>Condition:</b> Due to the state of the link parameters, an interface link goes down.             |                                        |
| <b>Recovery:</b> Setting interface to disable and re-enabling it fixes the issue.                   |                                        |

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| <b>Defect ID:</b> DEFECT000587069                                                                                                   |                                            |
| <b>Technical Severity:</b> Medium                                                                                                   | <b>Probability:</b> Medium                 |
| <b>Product:</b> Brocade NetIron OS                                                                                                  | <b>Technology Group:</b> Layer 2 Switching |
| <b>Reported In Release:</b> NI 05.4.00                                                                                              | <b>Technology:</b> VLAN - Virtual LAN      |
| <b>Symptom:</b> When configuring a new VLAN on the CES, the "Error: insufficient fids available for vlan creation" message appears. |                                            |
| <b>Condition:</b> On CER/CES platform, with continuous churns due to multicast traffic sources and receivers.                       |                                            |

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| <b>Defect ID:</b> DEFECT000587126                                                                                                                                                                                                                       |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                       | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                      | <b>Technology Group:</b> VPN           |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                  | <b>Technology:</b> EVPN - Ethernet VPN |
| <b>Symptom:</b> When "default-local-preference" parameter is globally set, the VPNV4 advertised aggregate routes will not update the local-pref with the new parameter set, even after clearing the BGP neighborhood using "clear ip bgp neighbor all". |                                        |
| <b>Condition:</b> Aggregate routes are advertised through BGP VPN.<br>"default-local-preference" should be globally set/reset                                                                                                                           |                                        |
| <b>Workaround:</b> Run "clear ip bgp vrf <vrf-name> neighbor all" for the VRF's associated.<br>(or)<br>Remove & add "local-as" under "router bgp" which stops the BGP operation and starts again.                                                       |                                        |

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| <b>Defect ID:</b> DEFECT000587202                                                                                                 |                                                                        |
| <b>Technical Severity:</b> Medium                                                                                                 | <b>Probability:</b> Medium                                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                | <b>Technology Group:</b> Monitoring                                    |
| <b>Reported In Release:</b> NI 05.6.00                                                                                            | <b>Technology:</b> RAS - Reliability, Availability, and Serviceability |
| <b>Symptom:</b> Packet drops seen on ports due to Line card module failing to process packets with error "RX Lookup unavailable". |                                                                        |
| <b>Condition:</b> CAM FIFOs are stuck resulting in RX Lookup failure.                                                             |                                                                        |
| <b>Recovery:</b> Reload the affected Line card module.                                                                            |                                                                        |

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| <b>Defect ID:</b> DEFECT000587263                                                                                                                      |                                               |
| <b>Technical Severity:</b> High                                                                                                                        | <b>Probability:</b> Medium                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                     | <b>Technology Group:</b> Security             |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                 | <b>Technology:</b> PBR - Policy-Based Routing |
| <b>Symptom:</b> Device takes a long time to stabilize and recover the traffic after system reload with scaled ACL configuration.                       |                                               |
| <b>Condition:</b> This issue is seen only in scaled scenario. If user has scaled route-map configuration the reload time will increase proportionally. |                                               |
| <b>Recovery:</b> System will recover by itself.                                                                                                        |                                               |

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| <b>Defect ID:</b> DEFECT000587847                                                                                                                                                                                                       |                                     |
| <b>Technical Severity:</b> High                                                                                                                                                                                                         | <b>Probability:</b> Low             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                      | <b>Technology Group:</b> Management |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                  | <b>Technology:</b> Licensing        |
| <b>Symptom:</b> Under rare conditions the device goes for unplanned restart after a switchover has happened.                                                                                                                            |                                     |
| <b>Condition:</b> Likely scenario of reproduction when a switchover has happened and the systems been idle for some time post that. The conditions for reproducing the defect have not be known yet. This has been seen twice till now. |                                     |

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| <b>Defect ID:</b> DEFECT000588168                                                                                                    |                                                             |
| <b>Technical Severity:</b> Medium                                                                                                    | <b>Probability:</b> Medium                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                   | <b>Technology Group:</b> Layer 3 Routing/Network Layer      |
| <b>Reported In Release:</b> NI 05.7.00                                                                                               | <b>Technology:</b> ICMP - Internet Control Message Protocol |
| <b>Symptom:</b> While doing ping to local IP on the router, latency of more than 10msec seen.                                        |                                                             |
| <b>Condition:</b> When ICMP packets are processed in the CPU, a latency introduced when there are ARP updates in the system/network. |                                                             |

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| <b>Defect ID:</b> DEFECT000589295                                                                                                                     |                                                    |
| <b>Technical Severity:</b> High                                                                                                                       | <b>Probability:</b> High                           |
| <b>Product:</b> Brocade NetIron OS                                                                                                                    | <b>Technology Group:</b> Management                |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                | <b>Technology:</b> Software Installation & Upgrade |
| <b>Symptom:</b> The error messages "Master Dload chksum Fail" and "firmware download failed" will be seen on line card console during initialization. |                                                    |
| <b>Condition:</b> Specifically with 2x100GE-CFP2 line card with CFP2-QSFP28 adapter plugged-in.                                                       |                                                    |

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| <b>Defect ID:</b> DEFECT000589304                                                                                                                                          |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                          | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                         | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                     | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> The optical module type in the syslog message - "Optic module not factory qualified", shows as "*****Unknown*****" at times instead of "100GE QSFP28-AOC". |                                        |
| <b>Condition:</b> Specifically with 2x100GE-CFP2 with CFP2 adapter and 100G QSFP28 AOC plugged-in.                                                                         |                                        |

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| <b>Defect ID:</b> DEFECT000589935                                                                                                                                                                                                                                                                                                                              |                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> Security      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b> IPsec - IP Security |
| <b>Symptom:</b> Sometime IPsec Module may reset when the following commands are issued using script:<br>no interface tunnel <tunnel-number><br>no ipsec profile <ipsec-profile-name><br>no ikev2 profile <ikev2-profile-name><br>no ikev2 policy <ikev2-policy-name><br>no ikev2 auth-proposal <auth-proposal-name><br>no ikev2 proposal <ikev2-proposal-name> |                                        |
| <b>Condition:</b> Issue the following commands using script with no delay between each command:<br>no interface tunnel <tunnel-number><br>no ipsec profile <ipsec-profile-name><br>no ikev2 profile <ikev2-profile-name><br>no ikev2 policy <ikev2-policy-name><br>no ikev2 auth-proposal <auth-proposal-name><br>no ikev2 proposal <ikev2-proposal-name>      |                                        |

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| <b>Defect ID:</b> DEFECT000590355                                                                                                                                                                 |                                             |
| <b>Technical Severity:</b> Medium                                                                                                                                                                 | <b>Probability:</b> High                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                            | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> Happens on a scaled scenario on a slow server with a response time more than 10 seconds.<br>No path is available for the LSPs, so the LSPs keep retrying.                         |                                             |
| <b>Condition:</b> We expect the server to have a good response time within milliseconds, as that is one of the main purposes of using PCE. The issue was seen only when using a Spirent emulator. |                                             |

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| <b>Defect ID:</b> DEFECT000590434                                                                                                                                                     |                                     |
| <b>Technical Severity:</b> High                                                                                                                                                       | <b>Probability:</b> Low             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                    | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                | <b>Technology:</b> sFlow            |
| <b>Symptom:</b> Management Module may reload unexpectedly when a sFlow sample is being processed.                                                                                     |                                     |
| <b>Condition:</b> "sflow forwarding" should be enabled on the interface and "vrf forwarding <vrf-name>" should be enabled on the corresponding VE in which the interface is a member. |                                     |

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| <b>Defect ID:</b> DEFECT000591015                                                       |                                                             |
| <b>Technical Severity:</b> High                                                         | <b>Probability:</b> High                                    |
| <b>Product:</b> Brocade NetIron OS                                                      | <b>Technology Group:</b> MPLS                               |
| <b>Reported In Release:</b> NI 05.8.00                                                  | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> Traffic loss In MCT VPLS scenario, after Primary MCT peer reload.       |                                                             |
| <b>Condition:</b> When the Primary MCT peer fails with scaled VPLS can cause the issue. |                                                             |

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| <b>Defect ID:</b> DEFECT000591098                                                                                                     |                                           |
| <b>Technical Severity:</b> High                                                                                                       | <b>Probability:</b> Medium                |
| <b>Product:</b> Brocade NetIron OS                                                                                                    | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Video freezes every 3 minutes.                                                                                        |                                           |
| <b>Condition:</b> In ring topology where the RPT and SPT path is different and when ASSERT winner becomes blocked OIF on (S,G) entry. |                                           |

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| <b>Defect ID:</b> DEFECT000591161                                                                           |                                                             |
| <b>Technical Severity:</b> High                                                                             | <b>Probability:</b> Medium                                  |
| <b>Product:</b> Brocade NetIron OS                                                                          | <b>Technology Group:</b> Layer 3 Routing/Network Layer      |
| <b>Reported In Release:</b> NI 06.0.00                                                                      | <b>Technology:</b> BFD - BiDirectional Forwarding Detection |
| <b>Symptom:</b> Sometimes BFD session flaps when OpenFlow-flows are deleted using "clear open all" command. |                                                             |
| <b>Condition:</b> When OpenFlow-flows are deleted using the command "clear open all".                       |                                                             |
| <b>Recovery:</b> BFD session will recover by itself.                                                        |                                                             |

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| <b>Defect ID:</b> DEFECT000591202                                                                                                                                                                                                                                     |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                     | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                    | <b>Technology Group:</b> Management             |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> Multiple interfaces stay down on MLX 10Gx20 with 1G SFPs and do not come up even on disable/enable.                                                                                                                                                   |                                                 |
| <b>Condition:</b> The issue is seen when <ul style="list-style-type: none"> <li>- chassis is loaded with default config,</li> <li>- MLX 10x20G card is inserted without the optics, and</li> <li>- 1G SFPs are then inserted fairly fast on the interfaces</li> </ul> |                                                 |

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| <b>Defect ID:</b> DEFECT000591513                                                                 |                                                                            |
| <b>Technical Severity:</b> High                                                                   | <b>Probability:</b> High                                                   |
| <b>Product:</b> Brocade NetIron OS                                                                | <b>Technology Group:</b> Layer 3 Routing/Network Layer                     |
| <b>Reported In Release:</b> NI 05.7.00                                                            | <b>Technology:</b> IS-IS - IPv4 Intermediate System to Intermediate System |
| <b>Symptom:</b> IS-IS peer node reachability may be shown as multihop although it is a single hop |                                                                            |
| <b>Condition:</b> This issue may be observed in a scaled IS-IS topology with shortcuts enabled    |                                                                            |

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| <b>Defect ID:</b> DEFECT000591587                                                                                            |                                           |
| <b>Technical Severity:</b> Medium                                                                                            | <b>Probability:</b> High                  |
| <b>Product:</b> Brocade NetIron OS                                                                                           | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 05.9.00                                                                                       | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Multicast software cache entries are not deleted after entries are aged out from hardware in an MCT network. |                                           |
| <b>Condition:</b> This issue has introduced after stopping multicast source traffic.                                         |                                           |
| <b>Recovery:</b> System can be recovered from this state by clearing cache entries using "clear ip pim mcache" command.      |                                           |

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| <b>Defect ID:</b> DEFECT000591955                                                                                                                                                |                                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                                | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                               | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                           | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> Incorrect metric value might be advertised for a BGP route to an EBGp neighbor, with the neighbor configured without route-map.                                  |                                                        |
| <b>Condition:</b> The neighbor should have an out route-map,<br>The route-map should have "set metric-type internal" which will advertise the BGP route with IGP metric for MED. |                                                        |
| <b>Workaround:</b> "clear ip bgp neighbor <neighbor address > soft out"                                                                                                          |                                                        |

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| <b>Defect ID:</b> DEFECT000592026                                                                           |                                                          |
| <b>Technical Severity:</b> Medium                                                                           | <b>Probability:</b> Medium                               |
| <b>Product:</b> Brocade NetIron OS                                                                          | <b>Technology Group:</b> Monitoring                      |
| <b>Reported In Release:</b> NI 05.8.00                                                                      | <b>Technology:</b> OAM - Operations, Admin & Maintenance |
| <b>Symptom:</b> MEP ages out after Standby Management Module is reloaded                                    |                                                          |
| <b>Condition:</b> ERP is configured with sub-second CCM interval and standby Management Module is reloaded. |                                                          |

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| <b>Defect ID:</b> DEFECT000592027                                                                                      |                                        |
| <b>Technical Severity:</b> Medium                                                                                      | <b>Probability:</b> High               |
| <b>Product:</b> Brocade NetIron OS                                                                                     | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 06.0.00                                                                                 | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Connected to Line card, Ran the Diag bist command multiple times, after few instances LP is rebooting. |                                        |
| <b>Condition:</b> debuggability                                                                                        |                                        |

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| <b>Defect ID:</b> DEFECT000592732                                                                                                                                                                                                                                                          |                                             |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                            | <b>Probability:</b> Medium                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                         | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                     | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> When a second IP address is configured for an interface, it is possible RSVP chooses the second IP address while sending back a RESV. When upstream router processes the RESV message, it drops because it doesn't match the RRO it was expecting. Thus LSP won't come up. |                                             |
| <b>Condition:</b> This issue must be one of the corner scenarios that might be existing in the RSVP code.                                                                                                                                                                                  |                                             |
| <b>Workaround:</b> Unconfigure the second interface IP address will bring up the LSP.                                                                                                                                                                                                      |                                             |

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| <b>Defect ID:</b> DEFECT000592929                                                                                                 |                                                        |
| <b>Technical Severity:</b> High                                                                                                   | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.9.00                                                                                            | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Unexpected reload of line card module.                                                                            |                                                        |
| <b>Condition:</b> Loopback interface in non-default VRF has the same IP address as that of the loopback interface in default VRF. |                                                        |
| <b>Workaround:</b> The IP addresses of loopback interfaces in default and non-default VRF need to be different.                   |                                                        |

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| <b>Defect ID:</b> DEFECT000593035                                                                                                                                                                          |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                                                                                          | <b>Probability:</b> High                        |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                         | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                                                                     | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> In a VPLS network, multicast destined packets may go on wrong VPLS instance on the remote PE.                                                                                              |                                                 |
| <b>Condition:</b> In a VPLS network with "vpls-cpu-protection", multicast destined packets may go on wrong VPLS instance on the remote PE when a user disables and re-enables one of the forwarding paths. |                                                 |
| <b>Recovery:</b> Problem can be recovered by reloading the device.                                                                                                                                         |                                                 |

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| <b>Defect ID:</b> DEFECT000593492                                                                                                                                                      |                                           |
| <b>Technical Severity:</b> High                                                                                                                                                        | <b>Probability:</b> High                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                     | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                 | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Sometimes device may reload when user undeploy and deploy LAG interface after some specific configuration steps along with the Multicast traffic in an MCT deployment. |                                           |
| <b>Condition:</b> This issue introduced when user un-deploy and deploy LAG interface after some specific configuration steps along with the Multicast traffic in an MCT deployment.    |                                           |
| <b>Workaround:</b> Stop Multicast traffic and clear cache entries before un-deploy and deploy of the LAG in an MCT deployment.                                                         |                                           |

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| <b>Defect ID:</b> DEFECT000594037                                                                                 |                                                           |
| <b>Technical Severity:</b> Medium                                                                                 | <b>Probability:</b> High                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                | <b>Technology Group:</b> Layer 3 Routing/Network Layer    |
| <b>Reported In Release:</b> NI 06.0.00                                                                            | <b>Technology:</b> OSPFv3 - IPv6 Open Shortest Path First |
| <b>Symptom:</b> There are sometimes a lot of SYSLOG messages indicating OSPFv3 LSA re-transmission.               |                                                           |
| <b>Condition:</b> This happens if "log-status-change" is enabled in OSPFv3 config to enable LSA-retransmit traps. |                                                           |

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| <b>Defect ID:</b> DEFECT000594168                                                                                                         |                                                |
| <b>Technical Severity:</b> Medium                                                                                                         | <b>Probability:</b> Medium                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                        | <b>Technology Group:</b> Security              |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                    | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Packets matching the permit clause of IPV6 ACL are dropped                                                                |                                                |
| <b>Condition:</b> When MAC ACL is applied on the interface and IPV6 receive ACL rate-limiting with strict-acl option is applied globally. |                                                |

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| <b>Defect ID:</b> DEFECT000594173                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Probability:</b> High             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Technology Group:</b> Management  |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                              | <b>Technology:</b> High Availability |
| <b>Symptom:</b> The customer at the time of issuing a reload on the system might see the below error/warning if the setup is loaded and scaled.<br>Warn:alloc_and_distribute_base_fid: Sync to standby MP failed for FID 0 (0000) (err = Timeout), reboot it(g_mp_red_wait_done 0).<br><br>In this case, setup was considerably scaled setup having 4k VLANS, 128 RTSP sessions, lldp enabled, LCP, etc                             |                                      |
| <b>Condition:</b> On a scaled setup the sync may not complete in time and result in timeout thereby causing the messages to be printed.<br>The sync is required to maintain the correct states across active and standby MP.<br>At the time of reload the sync couldn't complete in time due to load on the MP's and the IPC.<br>Since this happens at reload the warning in itself is harmless and causes no functionality impact. |                                      |
| <b>Workaround:</b> No workaround                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |
| <b>Recovery:</b> The system just reloads fine without any functional impact                                                                                                                                                                                                                                                                                                                                                         |                                      |

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| <b>Defect ID:</b> DEFECT000594318                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Probability:</b> Medium            |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Technology Group:</b> Security     |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Technology:</b> SSH - Secure Shell |
| <b>Symptom:</b> The SSH session terminates unexpectedly when running "show tech- support" command.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |
| <b>Condition:</b> From a SSH session, execute "show tech-support" command on a scaled setup with large configuration (32 slot chassis with ACL configurations close to the supported maximum limit)                                                                                                                                                                                                                                                                                                                                                         |                                       |
| <b>Workaround:</b> Redirect the output of "show tech-support" to a file instead of streaming to the SSH terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |
| <p>Example:</p> <pre>abc@xyz{295}: ssh lab@w.x.y.z &gt; show_tech_l2.txt Password: &lt;&lt;&lt;&lt; Provide password here, and monitor the output in a separate window (see below) &lt;&lt;&lt;&lt; Now we are at user privilege level  prompt. So enter "enable" &lt;&lt;&lt;&lt; Now we are at privilege exec mode.  So enter "show tech" &lt;&lt;&lt;&lt; wait for output to complete. Then exit twice (for exit out of privilege mode, and then exit out of user mode) Connection to w.x.y.z closed by remote host. Connection to w.x.y.z closed.</pre> |                                       |

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| <b>Defect ID:</b> DEFECT000594398                                                                                                                                |                                        |
| <b>Technical Severity:</b> Medium                                                                                                                                | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                               | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 05.7.00                                                                                                                           | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> Parity error similar to below mentioned is seen in syslog:<br>Mar 24 09:15:42:E:CAM2PRAM Word 2 Double Bit Parity Error on port range 1/1 - 1/10 |                                        |
| <b>Condition:</b> Single bit ECC error occurs on the Line card module NP memory.                                                                                 |                                        |

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| <b>Defect ID:</b> DEFECT000594606                                                                                                                                                                                                                                                                                                                                                                                        |                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                                                                                                                          | <b>Probability:</b> Medium             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                       | <b>Technology Group:</b> Monitoring    |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> A Line card reset with the below syslog and stack trace without any user intervention.<br>It is rarely seen.                                                                                                                                                                                                                                                                                             |                                        |
| <pre>SYSLOG: &lt;141&gt;Mar 27 08:56:30 R50-MLXe8 System: Module down in slot 5, reason CARD_DOWN_REASON_REBOOTED. Error Code 0  Stack Trace: ===== Possible Stack Trace (function call return address list) 00000000: .zero(pc) 20c18bec: ipc_multi_module_handler(lr) 20c1b1f0: ipc_process_messages 20c1b9cc: ipc_receive_packet 20036d14: ge_process_ipc_data_msg 207f57b4: lp_ipc_task 00040158: sys_end_task</pre> |                                        |
| <b>Condition:</b> Rarely seen. Corner case                                                                                                                                                                                                                                                                                                                                                                               |                                        |
| <b>Workaround:</b> No workaround                                                                                                                                                                                                                                                                                                                                                                                         |                                        |
| <b>Recovery:</b> The Line card will reboot and come up                                                                                                                                                                                                                                                                                                                                                                   |                                        |

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| <b>Defect ID:</b> DEFECT000595113                                                                                                                                                                                              |                                                               |
| <b>Technical Severity:</b> High                                                                                                                                                                                                | <b>Probability:</b> Medium                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                             | <b>Technology Group:</b> Layer 3 Routing/Network Layer        |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                         | <b>Technology:</b> DHCP - Dynamic Host Configuration Protocol |
| <b>Symptom:</b> When the router is acting as DHCPv6 relay agent, it is not choosing DHCPv6 client facing interface's link-local address as the source address in the IPv6 packet when it forwards reply message to the client. |                                                               |
| <b>Condition:</b> The device should act as a DHCPv6 relay agent                                                                                                                                                                |                                                               |

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| <b>Defect ID:</b> DEFECT000595261                                                                                                                        |                                                         |
| <b>Technical Severity:</b> Medium                                                                                                                        | <b>Probability:</b> High                                |
| <b>Product:</b> Brocade NetIron OS                                                                                                                       | <b>Technology Group:</b> IP Multicast                   |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                   | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Multicast source lookup fails due to unavailability of unicast routes in the system.                                                     |                                                         |
| <b>Condition:</b> This issue introduced when unicast traffic doesn't have routes in routing table which are required for multicast source and RP lookup. |                                                         |
| <b>Workaround:</b> Make sure unicast routing table populated before running multicast traffic.                                                           |                                                         |

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| <b>Defect ID:</b> DEFECT000595623                                                                                                                                                               |                                           |
| <b>Technical Severity:</b> Medium                                                                                                                                                               | <b>Probability:</b> High                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                              | <b>Technology Group:</b> IP Multicast     |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                          | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Line-card may reload while running multicast data traffic in an unlikely user scenario.                                                                                         |                                           |
| <b>Condition:</b> Trigger for this issue is unknown. Should not occur under normal maintenance operation, represents an unlikely user scenario. This system has IPSEC Tunnels with PIM enabled. |                                           |

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| <b>Defect ID:</b> DEFECT000595638                                                                                           |                              |
| <b>Technical Severity:</b> High                                                                                             | <b>Probability:</b> Low      |
| <b>Product:</b> Brocade NetIron OS                                                                                          | <b>Technology Group:</b> SDN |
| <b>Reported In Release:</b> NI 06.0.00                                                                                      | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> DUT might experience an unplanned restart, when more than 32K OpenFlow flows are being configured over SSL. |                              |
| <b>Condition:</b> More than 32K flows are sent from OpenFlow controller.                                                    |                              |

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| <b>Defect ID:</b> DEFECT000595703               |                                                 |
| <b>Technical Severity:</b> High                 | <b>Probability:</b> Low                         |
| <b>Product:</b> Brocade NetIron OS              | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.4.00          | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> High LP CPU usage               |                                                 |
| <b>Condition:</b> MLX-32 with MCT configuration |                                                 |

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| <b>Defect ID:</b> DEFECT000595704                                                                                                                                                                    |                                                        |
| <b>Technical Severity:</b> High                                                                                                                                                                      | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                   | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                               | <b>Technology:</b> GRE - Generic Routing Encapsulation |
| <b>Symptom:</b> Unable to establish TCP connection over GRE Tunnel.                                                                                                                                  |                                                        |
| <b>Condition:</b> The command "ip tcp redirect-gre-tcp-syn" should be present in the global configuration, while the tunnel source port should have the command "ip tcp adjust-mss <value>" enabled. |                                                        |
| <b>Workaround:</b> Remove the command "ip tcp adjust-mss <value>" from the interface configuration.                                                                                                  |                                                        |



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| <b>Defect ID:</b> DEFECT000595910                                                                 |                                                           |
| <b>Technical Severity:</b> Medium                                                                 | <b>Probability:</b> High                                  |
| <b>Product:</b> Brocade NetIron OS                                                                | <b>Technology Group:</b> Layer 3 Routing/Network Layer    |
| <b>Reported In Release:</b> NI 06.0.00                                                            | <b>Technology:</b> OSPFv3 - IPv6 Open Shortest Path First |
| <b>Symptom:</b> Extraneous config lines are added to running-config starting with "no trap ----". |                                                           |
| <b>Condition:</b> This happens after a reload if OSPFv3 "log-status-change" is configured.        |                                                           |

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| <b>Defect ID:</b> DEFECT000595942                                                                                                                                                                                                                                                                              |                                             |
| <b>Technical Severity:</b> High                                                                                                                                                                                                                                                                                | <b>Probability:</b> Medium                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                         | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> System reset is seen sometimes when select-path is retrying a new instance due to IGP neighbor down event and no path is available.                                                                                                                                                            |                                             |
| <b>Condition:</b> The system has IGP sync enabled and an LSP has selected path as the Active path and in addition to that there is no alternated path for the selected secondary to come UP. Under these conditions, if an interface flap in the network triggers neighbor down event, this issue may be seen. |                                             |

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| <b>Defect ID:</b> DEFECT000595982                                                                                                                                              |                                                             |
| <b>Technical Severity:</b> High                                                                                                                                                | <b>Probability:</b> High                                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                             | <b>Technology Group:</b> Layer 3 Routing/Network Layer      |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                         | <b>Technology:</b> BFD - BiDirectional Forwarding Detection |
| <b>Symptom:</b> BFD session state is staying UP even after un-tagging the port from VLAN.                                                                                      |                                                             |
| <b>Condition:</b> Sometimes after untagging a port from VLAN.                                                                                                                  |                                                             |
| <b>Recovery:</b> Execute the below command after untagging ports from VLAN if a BFD session state does not transition to DOWN state<br>"clear bfd neighbors A.B.C.D/X::X::X:X" |                                                             |

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| <b>Defect ID:</b> DEFECT000596110                                                                                                           |                                                 |
| <b>Technical Severity:</b> Medium                                                                                                           | <b>Probability:</b> Medium                      |
| <b>Product:</b> Brocade NetIron OS                                                                                                          | <b>Technology Group:</b> Layer 2 Switching      |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                      | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> A LAG can be deployed with inconsistent sFlow configuration on primary port and secondary port.                             |                                                 |
| <b>Condition:</b> "sflow forwarding" is enabled on an interface and is added to a deployed LAG whose primary port does not have it enabled. |                                                 |
| Note: This does not affect the LAG configuration                                                                                            |                                                 |

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| <b>Defect ID:</b> DEFECT000596126                                                                                                       |                                                           |
| <b>Technical Severity:</b> High                                                                                                         | <b>Probability:</b> High                                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                      | <b>Technology Group:</b> Layer 3 Routing/Network Layer    |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                  | <b>Technology:</b> OSPFv3 - IPv6 Open Shortest Path First |
| <b>Symptom:</b> Router restart is observed.                                                                                             |                                                           |
| <b>Condition:</b> This sometime occurs if clearing of all BGP and OSPF neighbors is performed just after the switch-over to standby MP. |                                                           |

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| <b>Defect ID:</b> DEFECT000596167                                                 |                                               |
| <b>Technical Severity:</b> Medium                                                 | <b>Probability:</b> High                      |
| <b>Product:</b> Brocade NetIron OS                                                | <b>Technology Group:</b> Security             |
| <b>Reported In Release:</b> NI 06.0.00                                            | <b>Technology:</b> PBR - Policy-Based Routing |
| <b>Symptom:</b> After reload PBR counters are not getting updated on CES devices. |                                               |
| <b>Condition:</b> This happens only in reload scenario.                           |                                               |
| <b>Recovery:</b> Rebind the PBR.                                                  |                                               |

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| <b>Defect ID:</b> DEFECT000596196                                                                                                                                                                                                                                                               |                                     |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                               | <b>Probability:</b> Medium          |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                              | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                                                                                                                          | <b>Technology:</b> Syslog           |
| <b>Symptom:</b> Alarm messages similar to the ones given below will be seen in Syslog/LP console along with trap message when 10GE Tunable SFP+ optics are connected.<br><br>Apr 20 14:17:38:A: Latched low RX Power alarm, port 1/3<br>Apr 20 14:17:38:A: Latched low RX Power alarm, port 1/1 |                                     |
| <b>Condition:</b> Tunable Optic SFPs connected                                                                                                                                                                                                                                                  |                                     |
| <b>Recovery:</b> Contact Brocade Support for guidance on how to suppress the alarm messages in the Syslog.                                                                                                                                                                                      |                                     |

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| <b>Defect ID:</b> DEFECT000596208                                   |                                                             |
| <b>Technical Severity:</b> Medium                                   | <b>Probability:</b> High                                    |
| <b>Product:</b> Brocade NetIron OS                                  | <b>Technology Group:</b> Layer 3 Routing/Network Layer      |
| <b>Reported In Release:</b> NI 06.0.00                              | <b>Technology:</b> BFD - BiDirectional Forwarding Detection |
| <b>Symptom:</b> The router restarts sometime.                       |                                                             |
| <b>Condition:</b> When BFD sessions are established over LAG ports. |                                                             |

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| <b>Defect ID:</b> DEFECT000596272                                                                                          |                                                        |
| <b>Technical Severity:</b> High                                                                                            | <b>Probability:</b> Medium                             |
| <b>Product:</b> Brocade NetIron OS                                                                                         | <b>Technology Group:</b> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.6.00                                                                                     | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Unable to ping a small number of IPs (including some directly connected IPs).                              |                                                        |
| <b>Condition:</b> On CER/CES platform, with high number (100s) of directly connected hosts with multiple non-major subnets |                                                        |

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| <b>Defect ID:</b> DEFECT000596289                                                                                                                                    |                                     |
| <b>Technical Severity:</b> Medium                                                                                                                                    | <b>Probability:</b> High            |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                   | <b>Technology Group:</b> Monitoring |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                               | <b>Technology:</b> Telemetry        |
| <b>Symptom:</b> No able to clear ACL/PBR counters using command "clear access-list ethertnet x/y"                                                                    |                                     |
| <b>Condition:</b> Clearing of counters not working                                                                                                                   |                                     |
| <b>Workaround:</b> User can use "clear access-list ethertnet x/y policy-based-routing" for clearing PBR counters. And "clear access-list" for clearing ACL counters. |                                     |

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| <b>Defect ID:</b> DEFECT000596446                                                                                                                                                                                                                                                                                                                                                                            |                                             |
| <b>Technical Severity:</b> Medium                                                                                                                                                                                                                                                                                                                                                                            | <b>Probability:</b> High                    |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                       | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> This happens in scenarios where the server response is very slow, in the order of 10s of seconds, or when the request is timed out due to unresponsive server. After a request has been made, if the user disables the LSP, removes 'pce compute' from the LSP config and enables it, and the response comes or timeout happens after all this, the error code of the LSP will be incorrect. |                                             |
| <b>Condition:</b> Happens and is seen only with PCE servers with extremely slow response time, or when the request is timed out as per the request timer, and the user changes the config on the LSP during this time to make the LSP locally computed.                                                                                                                                                      |                                             |

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| <b>Defect ID:</b> DEFECT000596574                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                                                                                                                                    | <b>Probability:</b> High                           |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                     | <b>Technology Group:</b> Traffic Management        |
| <b>Reported In Release:</b> NI 05.9.00                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology:</b> Traffic Queueing and Scheduling |
| <b>Symptom:</b> TM errors on a 32-slot chassis with 24x10G modules resulting in traffic drop.                                                                                                                                                                                                                                                                                                                          |                                                    |
| <b>Condition:</b> Seen on a 32-slot chassis with 24x10G modules present. Triggered by either<br>- a chassis reload or<br>- an LP insertion while traffic is present, or<br>- an LP reboot while traffic is present                                                                                                                                                                                                     |                                                    |
| <b>Workaround:</b> For the chassis reload - Add the command "wait-for-all-cards" in the configuration before reload. This will ensure that the issue does not happen during chassis reload.<br>For LP insertion - If LP is inserted without any config present for the LP, the issue will not happen. If LP is inserted with a config present for the LP, the issue can happen and recovery will need to be performed. |                                                    |
| <b>Recovery:</b> Reload the chassis after configuring the "wait-for-all-cards" command.                                                                                                                                                                                                                                                                                                                                |                                                    |

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| <b>Defect ID:</b> DEFECT000597226                                                       |                                                    |
| <b>Technical Severity:</b> High                                                         | <b>Probability:</b> Medium                         |
| <b>Product:</b> Brocade NetIron OS                                                      | <b>Technology Group:</b> Traffic Management        |
| <b>Reported In Release:</b> NI 05.9.00                                                  | <b>Technology:</b> Traffic Queueing and Scheduling |
| <b>Symptom:</b> While upgrading to a newer version, some of the SFM may go down.        |                                                    |
| <b>Condition:</b> This issue is seen rarely.                                            |                                                    |
| <b>Recovery:</b> Power cycle the SFM that has gone down and the issue will not be seen. |                                                    |

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| <b>Defect ID:</b> DEFECT000597413                                                                  |                                              |
| <b>Technical Severity:</b> Medium                                                                  | <b>Probability:</b> Medium                   |
| <b>Product:</b> Brocade NetIron OS                                                                 | <b>Technology Group:</b> Traffic Management  |
| <b>Reported In Release:</b> NI 05.6.00                                                             | <b>Technology:</b> Rate Limiting and Shaping |
| <b>Symptom:</b> Link fault signaling settings is not applied after reloading the chassis.          |                                              |
| <b>Condition:</b> Link fault signaling enabled globally and then reload chassis or power cycle LP. |                                              |
| <b>Recovery:</b> Disable and enable link-fault-signaling globally.                                 |                                              |

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| <b>Defect ID:</b> DEFECT000597443                                                                                                                                                              |                                             |
| <b>Technical Severity:</b> High                                                                                                                                                                | <b>Probability:</b> Medium                  |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                                             | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                                         | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> RSVP-TE LSP is operationally up from control plane point of view but is broken at the data plane. Data traffic passing through this LSP is affected.                           |                                             |
| <b>Condition:</b> Line card on one of the transit routers through which LSP passes was continuously rebooting. After faulty line card was replaced, LSP came up but its data plane was broken. |                                             |
| <b>Recovery:</b> Resetting the LSP resolved this issue. Execute the following commands<br><pre> conf t router mpls lsp &lt;NAME&gt; disable ==wait for around 1min== enable </pre>             |                                             |