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NetIron OS 06.2.00e for ExtremeRouting MLX Series Devices

Release Notes v1.0

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Document history

Version	Summary of changes	Publication date
1.0	Initial release	October 2019

Preface

Contacting Extreme Technical Support

As an Extreme customer, you can contact Extreme Technical Support using one of the following methods: 24x7 online or by telephone. OEM customers should contact their OEM/solution provider.

If you require assistance, contact Extreme Networks using one of the following methods:

- GTAC (Global Technical Assistance Center) for immediate support
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- Email: support@extremenetworks.com. To expedite your message, enter the product name or model number in the subject line.
- GTAC Knowledge - Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance.
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- Support Portal - Manage cases, downloads, service contracts, product licensing, and training and certifications.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number and/or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any action(s) already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

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Overview

NetIron OS Release 06.2.00 enhances the capabilities of ExtremeRouting MLX Series, ExtremeRouting CER 2000 Series and ExtremeSwitching CES 2000 Series in the following areas:

- * Routing and MPLS services,
- * Network Packet Broker functionality for 4G/LTE mobile networks

In addition, this release also has further enhancements to manageability and troubleshooting functions to enable efficient network operations.

With these features, the MLX Series Router continues as the leading platform for converged data center and service provider network services.

Behavior changes

Behavior changes in release NetIron 06.2.00

There are no deprecated commands in NetIron 06.2.00e.

There are no deprecated commands in NetIron 06.2.00d.

There are no deprecated commands in NetIron 06.2.00c.

There are no deprecated commands in NetIron 06.2.00b.

There are no deprecated commands in NetIron 06.2.00a.

There are no deprecated commands in NetIron 06.2.00.

Software Features

New software features introduced in R06.2.00e

No new software features are introduced in release R06.2.00e.

New software features introduced in R06.2.00d

The following software features are new for the NetIron 06.2.00d release:

Port Security SNMP OID

- Port MAC security interface table – To enable/disable port security on a specific interface – Use the SNMP set operation for the SNMP object snPortMacSecurityIntfContentSecurity.
- Port MAC global security – To enable/disable the feature globally -Use the SNMP set operation for the SNMP object snPortMacGlobalSecurityFeature.
- Port security traps – When the interface receives MAC addresses that are included in the secure MAC list, port security traps are generated.

New software features introduced in R06.2.00c

Beginning with release R06.2.00c, the OSPFv3 area is increased from 9 to 200 areas.

New software features introduced in R06.2.00b

No new software features are introduced in release R06.2.00b.

New software features introduced in R06.2.00a

No new software features are introduced in release R06.2.00a.

New software features

The following software features are new for NetIron 06.2.00 release. For information about which platforms support these features, refer to the Feature Support Matrix.

IP Routing, forwarding, MPLS features

- **ARP for IP Unnumbered:** Static IP/ARP entry for IP Unnumbered Clients.
- **BGP teardown restart-interval support:** This feature re-establishes BGP neighbor connections automatically after a certain interval.
- **PBIF Assist for ICMP requests:** Fast ICMP processing on the 20x10G, 4x40G line cards. PBIF FPGA assist fast response to ICMP pings.
- **Route limit events for MPLS VPNs:** This feature will generate notifications (i.e. a syslog and an SNMP trap) when the number of routes under a default/non-default VRF's IPv4/v6 unicast address-family exceeds the user-configured threshold limit and/or the configured max-route limit.
- **Y1731 1DM, LMM and SLM support to 4x10G CES/CER:** Supported on the following interfaces: VLAN/VPLS/VLL/LAG.
- **LDP Tunnel Filter at Ingress:** LDP prefix filter at ingress to conserve resources. Helps with 128 tunnel headend limitation on CES.
 - **L3 Optimized CAM profile:** A new CAM profile is supported as part of NetIron 06.2.00. Details in CAM profile section of *NetIron Management Configuration Guide*.
- **Max-route VRF to 750k:** Increases the max-route in VRF to 750k

Network Packet Broker

- Allow the `uda-offset` command (Flex Match) to accept values beyond 116, up to 124 bytes. UDA Enhancement supports configuration on any offset desired, not just on 32 bit boundary. This enhancement facilitates the user to define offsets which are flexible.

Management and RAS feature enhancements

- **RADIUS Authentication:** supports 'Virtual' port for device management, authentication and 'Ethernet' port for NAC authentication for NAS-PORT-TYPE attribute.

- **Radius Configurable NAS identifier:** supports the configured Host Name as NAS_Identifier for RADIUS.
- **Bulk Port Naming:** With this feature, users can select a range of ports and assign alphanumeric name to the selected ports.
- **Source Interface option for DNS Client:** Support v4 and V6 source-interface option for DNS queries.
- **rACL to filter traffic destined to VRRP/VRRP-E Interfaces:** rACL feature support for VRRP/VRRP-E interfaces.
- **User defined multi-VRF support for sFlow Collector:** In addition to management and default VRF, sFlow will support user defined customer VRFs.

New Optics support

- 10GE BiDiDownstream SFP+ (Part Number: 57-1000349-01)
- 10GE BiDiUpstream SFP+ (Part Number: 57-1000348-01)
- 100G-QSFP28-LR4-LP-10KM (same as the current QSFP28-LR4 but at 3.5W instead of 4.5W Part Number: 57-1000338-01)

Other enhancements

- Error monitoring and recovery for 8x10G linecard
- Software and FPGA compatibility check between Active and Standby Management Modules.
- Supports a command to disable TFTP client at the application level.

CLI commands

New CLI commands NetIron 06.2.00e

No new commands are introduced in release R06.2.00e.

New CLI commands NetIron 06.2.00d

No new commands are introduced in release R06.2.00d.

New CLI commands NetIron 06.2.00c

No new commands are introduced in release R06.2.00c.

New CLI commands NetIron 06.2.00b

No new commands are introduced in release R06.2.00b.

New CLI commands NetIron 06.2.00a

No new commands are introduced in release R06.2.00a.

New CLI commands NetIron 06.2.00

- filter-tunnel
- ip icmp fast-echo-reply
- ip dns source-interface
- ipv6 dns source-interface
- max-uda-offset
- neighbor {ip-address | peer-group-name} [teardown-restart-interval]
- port-name
- racl-cpu-filtering
- racl-vrrp-vrip-filter
- tftp client disable

Modified commands

- address-family ipv4 max-route
- address-family ipv6 max-route
- uda-offsets
- show packet-buffer pbif
- show sflow
- system-max ip-cache
- system-max ip-route
- system-max ip-vrf-route
- sflow agent
- sflow destination

- show acl-policy
- show mpls ldp
- show packet-buffer pbif
- show sflow
- snmp-server group

Deprecated commands

There are no deprecated commands in this release.

New CLI commands R06.1.00a

No new commands were introduced in release R06.1.00a.

CLI commands introduced

New CLI commands R06.1.00

The following commands are new in this release:

- gtp-de-encapsulation – new command to remove GTP header
- strip-vxlan – new command to strip VxLAN header
- tunnel mode ipsec openflow-hybrid – enables openflow-hybrid on an IPsec tunnel
- memdump slot <slot_id> - this command dumps system info for a slot into memory
- show gtp-de-encapsulation
- ip multicast-routing optimization mct-scaling – enabled multicast scaling optimization for MCT
- ipv6 multicast-routing optimization mct-scaling - enabled multicast scaling optimization for MCT
- enable firmware-integrity-check - This command enables the RSA2048 key and SHA256 hash digital signature based firmware integrity check when the image is downloaded and installed on the device.
- verify { md5 | sha1 | sha256 } file <filem> [<hex_digest> | {digest-file <filem>}] – this command verifies the encryption hash of a file
- verify signature file <filem> signature-file <filem> - this command can be used to verify the signature of a file
- Show ip igmp cluster-client group- this command displays the cluster client group on MCT peers for ipv4.
- Show ipv6 mld cluster-client group- this command displays the cluster client group on MCT peers for ipv6
- debug ip igmp mct-mdup- this command shows debug for the igmp group synced between MCT peers
- debug ipv6 mld mct-mdup- this command shows debug for the igmp group synced between MCT peers

Modified commands

The following commands have been modified for this release:

- openflow enable ofv130 acl_pbr – existing command extended to allow enable/disable of ACL/PBR globally
- snmp-server trap-source management – new option ‘management’ introduced to allow configuration of management IP address as trap source
- management-vrf command under ‘config ntp’ context – this allows enable/disable of NTP on a management VRF

- extended-qos-mode set-force-tc-match-label-exp - to enable force the traffic class by new CLI command “set-force-tc-match-label-exp”. This command will be allowed with presence of “extended-qos-mode”
- set next-hop-ip-tunnel – this command was only supported for IPv4 PBR. With the introduction of IPv6 PBR with GRE tunnel as next hop, this command is now allowed for IPv6 PBR
- set next-hop-lsp lsp-name - this command was only supported for IPv4 PBR. With the introduction of IPv6 PBR with MPLS tunnel as next hop, this command is now allowed for IPv6 PBR
- rate-limit – this command on CES/CER has been extended to accept IPv6 ACL to allow IPv6 rate limiting ACLs
- rate-limit – this command has been extended on CES/CER to accept “vrf” name to enable rate limiting on a particular VRF
- set next-hop-tvf-domain <tvf-domain-id> replace-vlan <vlan-X> - “replace-vlan” is newly introduced
- set next-hop-flood-vlan <vlan-id> replace-vlan <vlan-X> - “replace-vlan” is newly introduced
- transport-address interface – this command is newly introduced under MPLS interface’s “lsp-params” CLI context to set transport address for LDP
- reload -x – reload system after memory dump
- reset -x – reset LP after memory dump
 - show interface – displays GTP de-encapsulation status
 - show packet-encap-processing – displays the configuration state of VxLAN header including others
 - show openflow - this command output includes information about logical interface (MPLS and IPsec tunnels)
 - show openflow flow – this command displays flows including vlan modification configurations
 - show openflow group – this command is enhanced to include information about groups with logical interfaces
 -
 - show openflow interface - this command is enhanced to display enabled logical Interface (MPLS and IPsec) information
 - show ipsec interface – this command output extended to display openflow status (enabled/disabled) on IPsec tunnel
 - show route-map – Output includes additional information about replace-vlan
 - show tvf-domain – Output includes additional information about replace-vlan
- show openflow – command output modified to include status of ACL/PBR
- radius-server host – Existing CLI extended to accept IPv6 address to support IPv6 Authentication/accounting for RADIUS over TLS and configurable shared-key along with the server
- show management-vrf – the output of this command is extended to display the statistics of NTP packets/sessions rejection due to failure in Management vrf validation
- show tsec — some counters in the display output are no longer clear on read, hence “Total” keyword has been inserted to reflect that
- show optics — Tx and Rx power value of optics is displayed in units of Micro Watts (uW) along with existing dBm values
- show optics threshold — Tx and Rx power value of optics is displayed in units of Micro Watts (uW) along with existing dBm values
- show mpls ldp interface - this command is modified to show if LDP interface transport address feature is in use

- show mpls ldp sess - this command is modified to show which interface transport address is in use
- show flow-ctrl status – command extended to display RX Pause status for ports
- show ip pim count mct – displays various scaling related PIM/MCT counters
- show ipv6 pim count mct – displays various scaling related PIM/MCT counters
- Show ip pim global- this command displays information about MCT scaling optimization is enabled
- Show ipv6 pim global- this command displays information about MCT scaling optimization is enabled

Deprecated commands

The following commands have been deprecated beginning with this release:

- hd – hex dump command has been removed from system

MIBs and messages

MIBs

New MIB Objects

No MIB objects are introduced in release NetIron 06.2.00e.

New MIB Objects

The following MIBs are introduced in release NetIron 06.2.00d:

- Port MAC security interface table – To enable/disable port security on a specific interface Use the SNMP set operation for the SNMP object: snPortMacSecurityIntfContentSecurity.
- Port MAC global security – To enable/disable the feature globally -Use the SNMP set operation for the SNMP object: snPortMacGlobalSecurityFeature.

New MIB Objects

No MIB objects are introduced in release NetIron 06.2.00c.

New MIB Objects

No MIB objects are introduced in release NetIron 06.2.00b.

New MIB Objects

No MIB objects are introduced in release NetIron 06.2.00a.

New MIB Objects

No MIB objects are introduced in release NetIron 06.2.00.

New MIB Objects

No MIB objects are introduced in release R06.1.00a.

New MIB Objects

The following MIBs are introduced in release R06.1.00:

- Following is a newly added table snIfOpticalMonitoring2Table, which is augmented from the existing table snIfOpticalMonitoringInfoTable for displaying one of the following status values: notSupported(1), notApplicable(2), highAlarm(3), highWarn(4), normal(5), lowWarn(6), lowAlarm(7) and the Tx Power and Rx Power value in units of microwatt.

snIfOpticalMonitoring2Table – new OID (1.3.6.1.4.1.1991.1.1.3.3.12)

- snIfOpticalMonitoring2TxPowerStatus
 - snIfOpticalMonitoring2TxPowerVal
 - snIfOpticalMonitoring2RxPowerStatus
 - snIfOpticalMonitoring2RxPowerVal
- Following is a newly added table snIfOpticalLaneMonitoring2Table, which is augmented from the existing table snIfOpticalLaneMonitoringTable for displaying one of the following status values: notSupported(1), notApplicable(2), highAlarm(3), highWarn(4), normal(5), lowWarn(6), lowAlarm(7) and the Tx Power and Rx Power value in units of microwatt.

snIfOpticalLaneMonitoring2Table – new OID (.1.3.6.1.4.1.1991.1.1.3.3.13)
 snIfOpticalLaneMonitoring2TxPowerStatus
 snIfOpticalLaneMonitoring2TxPowerVal
 snIfOpticalLaneMonitoring2RxPowerStatus
 snIfOpticalLaneMonitoring2RxPowerVal

Modified MIBs

The following MIBs have been modified for this release:

Not Applicable

Deprecated MIBs

The following MIBs have been deprecated beginning with this release:

Not Applicable

Messages

New Messages

The following messages are new in this release:

Not Applicable

Modified Messages

The following messages have been modified for this release:

Not Applicable

Deprecated Messages

The following messages have been deprecated beginning with this release:

- Not Applicable

RFCs and standards

No new RFCs are supported in this release.

Hardware support

Supported devices

The following devices are supported in this release:

ExtremeRouting XMR Series	ExtremeRouting MLX Series	ExtremeSwitching CES 2000 Series	ExtremeRouting CER 2000 Series
XMR 4000	MLX-4	CES 2024C-4X	CER-RT 2024C-4X
XMR 8000	MLX-8	CES 2024F-4X	CER-RT 2024F-4X
XMR 16000	MLX-16	CES 2024C	CER 2024C
XMR 32000	MLX-32	CES 2024F	CER-RT 2024C
	MLXe-4	CES 2048C	CER 2024F
	MLXe-8	CES 2048CX	CER-RT 2024F
	MLXe-16	CES 2048F	CER 2048C
	MLXe-32	CES 2048FX	CER-RT 2048C
			CER 2048CX
			CER-RT 2048CX
			CER 2048F
			CER-RT 2048F
			CER 2048FX
			CER-RT 2048FX

Supported devices for Network Packet Broker R06.1.00

XMR Series	MLX Series
XMR 4000	MLX-4
XMR 8000	MLX-8
XMR 16000	MLX-16
XMR 32000	MLX-32
	MLXe-4
	MLXe-8
	MLXe-16
	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	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	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	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	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	MLX 2-port 100 GbE (M) CFP2 module. Supports 512,000 IPv4 routes in FIB.	Yes	Yes	3
BR-MLX-100GX2-CFP2-X2	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-10GX8-X	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	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	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	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	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	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	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	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	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-10GX8-D	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	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	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 Extreme, refer to the latest version of the Extreme Optics Family Data Sheet available online at <https://cloud.kapostcontent.net/pub/a070d154-d6f1-400b-b2f0-3d039ae2f604/data-center-ethernet-optics-data-sheet?kui=Cc1YBpmqyfb2mDfw2vlq2g>.

The NetIron 6.2.00e release includes support for the following orderable Extreme optic SKUs:

Orderable Optic SKUs	Description
100G-CWDM4-QSFP2KM	100G CWDM4 QSFP28 2km
10301	ASSY, SR SFP+ SHIPPING
10302	ASSY, LR SFP+ SHIPPING
10070H	10/100/1000BASE-T SFP, Hi
10052H	1000BASE-LX SFP, Hi
100G-LR4-QSFP10KM	100G LR4 QSFP28 10km
40G-SR4-QSFP150M	40G SR4 QSFP+ 150m

The NetIron 06.2.00a release includes support for the following:

Item
E1MG-100BXD
E1MG-100BXU

The NetIron 06.2.00 release includes support for the following:

Item
10GE BiDi Upstream SFP+
10GE BiDi Downstream SFP+
100G QSFP28 LR4-LP
10Km

End of Sale and End of Support products

For more information on product support, refer to the [End of Sale and End of Support](#) page.

Software upgrade and downgrade

Image file names

Download the following images from www.extremenetworks.com.

MLX Series and NetIron XMR devices

NOTE: When upgrading upgrading MLX Series and XMR Series devices, 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 NetIron 06.2.00e MLX Series/XMR software upgrade

Manifest File for XMR/MLX Release 06.2.00

```
-NETIRON_IRONWARE_VER XMR-MLXV6.2.00e
#=====
-DIRECTORY /Boot/InterfaceModule
xmlprm05900.bin
-DIRECTORY /Boot/ManagementModule
xmprm05900.bin
# Application Images
-DIRECTORY /Combined/FPGA
lpfpga06200e.bin
-DIRECTORY /Combined/Application
xm06200e.bin
-DIRECTORY /Monitor/InterfaceModule
xmlb06200.bin
-DIRECTORY /Monitor/ManagementModule
xmb06200.bin
-DIRECTORY /Application/ManagementModule
xmr06200e.bin
-DIRECTORY /Application/InterfaceModule
xmlp06200e.bin
-DIRECTORY /FPGA/InterfaceModule
pbif4x40_06200e.bin 2.11
pbif8x10_06200e.bin 2.24
pbifmrj_06200e.bin 4.04
pbifsp2_06200e.bin 4.02
statsmrj_06200e.bin 0.09
xgmacsp2_06200e.bin 0.17
xpp2x100_06200e.bin 1.06
xpp4x40_06200e.bin 6.20
xpp4x10g3_06200e.bin 0.00
xpp8x10_06200e.bin 1.10
xppmrj_06200e.bin 1.03
xppsp2_06200e.bin 1.01
```

xppxsp2_06200e.bin 1.01
pbif-ber-g3_06200e.bin 2.11
xpp20x10g3_06200e.bin 0.01
xpp2x100g3_06200e.bin 0.00
-DIRECTORY /FPGA/ManagementModule
mbridge32_06200e.xsvf 36
mbridge_06200e.xsvf 37
sbridge_06200e.mcs 6
hsbridge_06200e.mcs 17
-END_OF_IMAGES

-DIRECTORY /Signatures
xmlprm05900.sig
xmprm05900.sig
xmlb06200.sig
xmb06200.sig
xmr06200e.sig
xmlp06200e.sig
lpfpga06200e.sig
hsbridge_06200e.sig
mbridge_06200e.sig
mbridge32_06200e.sig
sbridge_06200e.sig
pbif4x40_06200e.sig
pbif8x10_06200e.sig
pbifmrj_06200e.sig
pbifsp2_06200e.sig
pbif-ber-g3_06200e.sig
statsmrj_06200e.sig
xgmacsp2_06200e.sig
xpp2x100_06200e.sig
xpp20x10g3_06200e.sig
xpp2x100g3_06200e.sig
xpp4x40_06200e.sig
xpp4x10g3_06200e.sig
xpp8x10_06200e.sig
xppmrj_06200e.sig
xppsp2_06200e.sig
xppxsp2_06200e.sig
xmlprm05900.sha256
xmprm05900.sha256
xmlb06200.sha256
xmb06200.sha256
xmr06200e.sha256
xmlp06200e.sha256
lpfpga06200e.sha256
hsbridge_06200e.sha256

mbridge_06200e.sha256
 mbridge32_06200e.sha256
 sbridge_06200e.sha256
 pbif4x40_06200e.sha256
 pbif8x10_06200e.sha256
 pbifmrj_06200e.sha256
 pbifsp2_06200e.sha256
 pbif-ber-g3_06200e.sha256
 statsmrj_06200e.sha256
 xgmacsp2_06200e.sha256
 xpp2x100_06200e.sha256
 xpp20x10g3_06200e.sha256
 xpp2x100g3_06200e.sha256
 xpp4x40_06200e.sha256
 xpp4x10g3_06200e.sha256
 xpp8x10_06200e.sha256
 xppmrj_06200e.sha256
 xppsp2_06200e.sha256
 xppxsp2_06200e.sha256

FPGA file names and supported modules

File Name	Supported Modules
pbif4x40_06200.bin	4x40G modules
pbif8x10_06200.bin	8x10G modules
pbifmrj_06200.bin	24x1G and 48x1G modules
pbifsp2_06200.bin	2x10G, 4x10G, 4x10G-x and 20x1G modules
statsmrj_06200.bin	24x1G and 48x1G modules
xgmacsp2_06200.bin	2x10G, 4x10G-x and 4x10G modules
xpp2x100_06200.bin	2x100G modules (double-wide CFP-based module)
xpp4x40_06200.bin	4x40G modules
xpp4x10g3_06200.bin	4x10G modules
xpp8x10_06200.bin	8x10G modules
xppmrj_06200.bin	24x1G and 48x1G modules
xppsp2_06200.bin	2x10G, 4x10G, and 20x1G modules
xppxsp2_06200.bin	4x10G-x
pbif-ber-g3_06200.bin	20x10G and 2x100G modules (-M and -X2)
xpp20x10g3_06200.bin	20x10G modules
xpp2x100g3_06200.bin	2x100G modules (half-slot CFP2-based module)
mbridge32_06200.xsvf	MBRIDGE32
mbridge_06200.xsvf	MBRIDGE

sbridge_06200.mcs	Switch fabric modules
hsbridge_06200.mcs	High speed switch fabric modules

CES 2000 Series and CER 2000 Series devices

When upgrading CES 2000 Series and CER 2000 Series devices, 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 R06.2.00e software upgrade

```
-NETIRON_IRONWARE_VER CES-CERV6.2.00e
#=====
-DIRECTORY /Boot
ceb06000.bin
-DIRECTORY /Application
ce06200e.bin
-DIRECTORY /FPGA
pbifmetro_06200e.bin
-END_OF_IMAGES

-DIRECTORY /Signatures
ceb06000.sig
ce06200e.sig
pbifmetro_06200e.sig
ceb06000.sha256
ce06200e.sha256
pbifmetro_06200e.sha256

-DIRECTORY /MIBS
ce06200e.mib
ce06200e_std.mib
```


Manifest for Network Packet Broker devices

NOTE: When upgrading MLX Series and XMR Series devices, 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 R06.2.00e software upgrade

```
-NETIRON_IRONWARE_VER XMR-MLXV6.2.00e
#=====
-DIRECTORY /Boot/InterfaceModule
xmlprm05900.bin
-DIRECTORY /Boot/ManagementModule
xmprm05900.bin
# Application Images
-DIRECTORY /Combined/FPGA
lpfpga_npb_06200e.bin
-DIRECTORY /Combined/Application
xm06200e.bin
-DIRECTORY /Monitor/InterfaceModule
xmlb06200.bin
-DIRECTORY /Monitor/ManagementModule
xmb06200.bin
-DIRECTORY /Application/ManagementModule
xmr06200e.bin
-DIRECTORY /Application/InterfaceModule
xmlp06200e.bin
-DIRECTORY /FPGA/InterfaceModule
pbif4x40_06200e.bin 2.11
pbif8x10_06200e.bin 2.24
pbifmrj_06200e.bin 4.04
pbifsp2_06200e.bin 4.02
statsmrj_06200e.bin 0.09
xgmacsp2_06200e.bin 0.17
xpp2x100_06200e.bin 1.06
xpp4x40_06200e.bin 6.20
xpp4x10g3_06200e.bin 0.00
xpp8x10_06200e.bin 1.10
xppmrj_06200e.bin 1.03
xppsp2_06200e.bin 1.01
xppxsp2_06200e.bin 1.01
pbif-ber-g3_06200e.bin 2.11
xpp20x10g3_npb_06200e.bin 0.10
xpp2x100g3_npb_06200e.bin 0.10
-DIRECTORY /FPGA/ManagementModule
mbridge32_06200e.xsvf 36
mbridge_06200e.xsvf 37
sbridge_06200e.mcs 6
```

hsbridge_06200e.mcs 17
-END_OF_IMAGES

-DIRECTORY /Signatures

xmlprm05900.sig
xmprm05900.sig
xmlb06200.sig
xmb06200.sig
xmr06200e.sig
xmlp06200e.sig
lpfpga_npb_06200e.sig
hsbridge_06200e.sig
mbridge_06200e.sig
mbridge32_06200e.sig
sbridge_06200e.sig
pbif4x40_06200e.sig
pbif8x10_06200e.sig
pbifmrj_06200e.sig
pbifsp2_06200e.sig
pbif-ber-g3_06200e.sig
statsmrj_06200e.sig
xgmacsp2_06200e.sig
xpp2x100_06200e.sig
xpp20x10g3_npb_06200e.sig
xpp2x100g3_npb_06200e.sig
xpp4x40_06200e.sig
xpp4x10g3_06200e.sig
xpp8x10_06200e.sig
xppmrj_06200e.sig
xppsp2_06200e.sig
xppxsp2_06200e.sig
xmlprm05900.sha256
xmprm05900.sha256
xmlb06200.sha256
xmb06200.sha256
xmr06200e.sha256
xmlp06200e.sha256
lpfpga_npb_06200e.sha256
hsbridge_06200e.sha256
mbridge_06200e.sha256
mbridge32_06200e.sha256
sbridge_06200e.sha256
pbif4x40_06200e.sha256
pbif8x10_06200e.sha256
pbifmrj_06200e.sha256
pbifsp2_06200e.sha256
pbif-ber-g3_06200e.sha256

statsmrj_06200e.sha256
xgmacsp2_06200e.sha256
xpp2x100_06200e.sha256
xpp20x10g3_npb_06200e.sha256
xpp2x100g3_npb_06200e.sha256
xpp4x40_06200e.sha256
xpp4x10g3_06200e.sha256
xpp8x10_06200e.sha256
xppmrj_06200e.sha256
xppsp2_06200e.sha256
xppxsp2_06200e.sha256

MIBS:
-DIRECTORY /MIBS
xmr06200e.mib
xmr06200e_std.mib

FPGA file names for NPB and supported modules

File Name	Supported Modules
xpp20x10g3_npb_06200.bin	20x10G modules FPGA for NPB
xpp2x100g3_npb_06200.bin	2x100G modules (half-slot CFP2-based module) FPGA to NPB

Migration path

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

Upgrade and downgrade considerations

To upgrade to R06.2.00e and later releases, a two-step approach may be required. The two-step upgrade process is not required for CER or CES. The two-step process is applicable to MLXe and XMR only.

Scenario 1

Customers running releases 05.9.00a, 05.6.00ga, 05.6.00h, 05.8.00d, 05.7.00e or subsequent releases can directly upgrade to NetIron 06.2.00e and later releases.

NOTE: If you are not running one of the releases listed above, you CANNOT directly upgrade to 6.2e or later releases.

Scenario 2

To upgrade from 05.6.00c or any later release (other than the images mentioned in Scenario 1), a two-step approach is required.

1. Upgrade to 05.9.00a or any of the following releases: 05.6.00ga, 05.6.00h, 05.8.00e, 05.7.00e or subsequent patch releases and reload the device.
2. Upgrade to NetIron 06.2.00e or later releases. Reload the device.

Scenario 3

To upgrade to NetIron 06.2.00e and later releases from releases prior to R05.6.00c, a two-step approach is required.

1. Upgrade to 5.9.00a or any of the following releases: 05.6.00ga, 05.6.00h, 05.8.00e or 05.7.00e and reload the device.
2. Upgrade again to the same image which was used in step 1 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 NetIron 06.2.00e or later releases, and reload the device.

Scenario 4

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

- VxLAN header stripping
 - GTP de-encapsulation
 - Packet Timestamping
 - Source port labeling
 - NVGRE stripping
 - NetIron 06.2.00e UDA Enhancements
1. Upgrade to NetIron 06.2.00e and later releases 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 NetIron 06.2.00e and later releases.
 3. Configure the **fpga-mode-npb** command and save the configuration.
 4. Upgrade to the NetIron 06.2.00e or later NPB image using MLX_npb_06200e_mnf.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 = 4.02, Build Time = 8/26/2013 14:30:00
```

```
Valid XPP Version = 1.01, Build Time = 9/6/2013 14:17:00
```

```
XGMAC-2 0
XGMAC-2 1
666 MHz MPC MPC8541E (version 8020/0020) 333 MHz bus
512 KB Boot Flash (MX29LV040C), 16 MB Code Flash (MT28F640J3)
512 MB DRAM, 8 KB SRAM
```

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

```
Boot      : Version 5.9.0T175 Copyright (c) 2017-2018 Extreme Networks, 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) 2017-2018 Extreme Networks, INC.
Compiled on Apr 28 2016 at 02:42:58 labeled as xmlb05900b1
(571381 bytes) from code flash
```

```
IronWare  : Version 5.9.0T177 Copyright (c) 2017-2018 Extreme Networks, INC.
Compiled on Apr 23 2018 at 04:02:04 labeled as xmlp05900b1
(9558947 bytes) from Primary
```

FPGA versions:

```
Valid PBIF Version = 4.04, Build Time = 11/10/2014 22:10:00
```

```
Valid XPP Version = 1.03, Build Time = 6/30/2016 10:37:00
```

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

```
All show version done
```

```
MLX-GVR#
```

Output example for the show flash command

```
MLX-GVR#show flash
```

```
~~~~~
```

```
NetIron OS 06.2.00e for ExtremeRouting MLX Series Devices Release Notes v1.0
9036189-01 Rev AA
```

...
...
...

~~~~~  
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
2 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
2 cc4e.2445.25d0
MLX-GVR#

```

**OpenFlow upgrade and downgrade**

When downgrading the system from NetIron 06.2.00 to NetIron 05.8.00, 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.

Extreme 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 Extreme NetIron Software Upgrade Guide.

## **Hitless upgrade support**

Hitless upgrade is not supported from 06.2.00d to 06.2.00e.



# Limitations and restrictions

## Compatibility and interoperability

- MLXe (NI006.1.00) and BFO 1.4 are interoperable.

## Important notes

OSPFv3 Area Scale: The CPU utilization for the OSPFv3 task may go high during SNMP walk for ospfv3AreaLsdbTable with 20 or more areas with a total of 5k routes.

OSPFv3 neighbors (over IPsec) are down after switchover PE1 node

- User may observe that OSPFv3 neighborship over IPv6 IPSEC tunnel stays in INIT state.
- User may observe this issue on a system with scaled IPSEC tunnel configuration when switchover is executed.
- To recover: User may observe this issue on a system with scaled IPSEC tunnel configuration when switchover is executed.

Saving system information to flash

- This feature is not supported on Gen1 LPs

Support for Management IP as snmp trap-source

- IPV6 support is not present currently for trap source addresses.

ACL/PBR co-existence with Openflow on same port

- PBR/ACL is not supported on L23 openflow hybrid port
- L2 PBR/ACL is not supported on L3 openflow hybrid port
- L3 PBR/ACL is not supported on L2 openflow hybrid port
- L2 ACL Deny logging is not supported openflow hybrid port.

RADIUS Over Transport Layer Security (TLS)

- Dot1x accounting is not supported over RADSEC/TLS

IPv6 ACL based rate limit for CES/CER

- ACL based rate limit is supported only on physical interface

SCP based simplified upgrade

- This is not supported on CES/CER devices
- This feature is supported on MR2 management modules
- Feature is supported from 5.7 and above version
- The signature verification is performed when the firmware version is 6.1
- Verification supported only when pre-upgrade version on device is NetIron 6.1 and above

### OpenFlow group table

- The only action allowed in action bucket is output port
- Each action bucket can have only one output port
- Maximum of 8 buckets are allowed in an OpenFlow group with logical ports.
- Group types All, Indirect and Fast-Failover are not supported for logical port groups. Only SELECT group type will be supported.
- Bucket statistics is not supported.
- Group cannot have physical port and logical port in the buckets. Either physical ports or logical ports should be present.
- Modification of a group with all physical ports to all logical ports in the buckets and vice versa are not supported.
- Generic OpenFlow rule with action logical port group is not supported.
- This feature is not supported in CES/R.
- Logical port group along with actions other than L2VPN/L3VPN label in flow action are not supported.

### VLAN modification in MPLS egress

- Pop VLAN action is limited to OpenFlow hybrid ports as output in action.
- In a dual tagged packet, only modification of outer VLAN is supported and addition/deletion of outer VLAN the inner VLAN modification/addition/deletion are not supported.

### SCP checksum, firmware integrity

- The signature verification is not performed for copying LP application, monitor to specific slot using TFTP , Slot1/Slot2 and LP boot using from Slot1/Slot2

IPv6 ACL Scaling 4k Enhancement is supported only on XMR /MLX Series.

### LDP interface transport address

- LDP interface transport address should not be enabled when there are multiple parallel adjacencies (interfaces) present between the LDP routers. If user wishes to enable this feature then they should remove the additional adjacencies. If a user enables this feature with multiple adjacencies to a peer then it is possible that the interface transport address may not be used and/or the session would be torn down due to role conflict.
- Pre-requisites: Enabling LDP interface transport address feature on the interface (adjacency) will cause any existing session to flap and come back up with interface IP address as transport address (only in cases where there is a single adjacency between the peers). This can be service impacting and something the user should be well aware of before executing the command.

# Defects

## 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 <https://extremeportal.force.com/> (note that TSBs are generated for all Extreme platforms and products, so not all TSBs apply to this release).

### TSB issues resolved in NI 06.2.00

| TSB               | Summary                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSB 2017-248-A[1] | When a tunnel (GRE or IPSec) is configured on a NetIron XMR/MLX device running NetIron 05.8.00 and later releases up to and including 06.1.00, using the command “tunnel-mode”, GRE and IPv6-over-IPv4 traffic transiting through non-default VRFs in the device will be dropped.                                                                                     |
| TSB 2017-249-A[3] | 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. (DEFECT 643783 and DEFECT 621970) |
| TSB 2017-007-A    | The issue is caused by the receipt of Pseudo wire SP TLV (SP-PE TLV (0x096D)). The receipt of this TLV on the Brocade MLX or CER/CES software causes an invalid memory access and hence causes an unexpected reload of Management Module in NetIron (DEFECT 643783).                                                                                                  |

### TSB issues resolved in NI 06.1.00

| TSB                | Summary                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSB 2017-248-A[1]  | When a tunnel (GRE or IPSec) is configured on a NetIron XMR/MLX device running NetIron 05.8.00 and later releases up to and including 06.1.00, using the command “tunnel-mode”, GRE and IPv6-over-IPv4 traffic transiting through non-default VRFs in the device will be dropped                                                                                                                                      |
| TSB 2016-242-A [2] | A critical defect (DEFECT 617836) may cause unexpected MLX Line Card reloads due to some IPSec control packets received. This document is to provide urgent awareness of the software fixes available on MyBrocade for versions 5.8.00ec, 5.9.00be and 6.0.00ab. Brocade strongly recommends that all customers running the affected images upgrade to the fixed releases, <b>whether IPSec is configured or not.</b> |
| TSB 2016-240-A     | To upgrade to R05.8.00 or any later release from releases prior to R05.6.00c, a two-step approach is required. The two-step approach                                                                                                                                                                                                                                                                                  |

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involves upgrading first to R05.6.00c and then to the R05.8.00 or later release.

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TSB issues outstanding in NI 06.1.00

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| <b>TSB</b> | <b>Summary</b> |
|------------|----------------|
| None       |                |

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## Closed with code changes R06.2.00e

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of October 2019 in NetIron 06.2.00e.

**Note: Parent Defect ID is the customer found Defect ID. The Issue ID is the tracking number uniquely used to check in the fix for each major release.**

|                             |                                                                                                                  |                          |                                     |
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| <b>Parent Defect ID:</b>    | NI-21141                                                                                                         | <b>Issue ID:</b>         | NI-21305                            |
| <b>Severity:</b>            | S2 - High                                                                                                        |                          |                                     |
| <b>Product:</b>             | NetIron OS                                                                                                       | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer |
| <b>Reported in Release:</b> | NI 06.0.00h                                                                                                      | <b>Technology:</b>       | IPv6 Addressing                     |
| <b>Symptom:</b>             | Connectivity loss may be observed in IPv6 network                                                                |                          |                                     |
| <b>Condition:</b>           | It is observed rarely on a MCT/ VEOVPLS configured device with MCT spoke connection in between the cluster peers |                          |                                     |
| <b>Workaround:</b>          | To disable CCEP (VEover VPLS) interface in one of the cluster peers                                              |                          |                                     |

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| <b>Parent Defect ID:</b>    | NI-21353                                                                                                                                                                                                                               | <b>Issue ID:</b>         | NI-21369                     |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                              |                          |                              |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                             | <b>Technology Group:</b> | Traffic Management           |
| <b>Reported in Release:</b> | NI 06.2.00c                                                                                                                                                                                                                            | <b>Technology:</b>       | Rate Limiting and<br>Shaping |
| <b>Symptom:</b>             | Traffic may not be rate-limited as configured                                                                                                                                                                                          |                          |                              |
| <b>Condition:</b>           | When ACL based rate-limit configuration with different queue priority is modified multiple times<br>ex:<br>rate-limit output access-group xxx priority q2 policy-map xyzMbps<br>rate-limit output access-group xxx priority q0 xyz abc |                          |                              |

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| <b>Parent Defect ID:</b>    | NI-21370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Issue ID:</b>         | NI-21375                                    |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |                                             |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> | Monitoring                                  |
| <b>Reported in Release:</b> | NI 05.8.00ec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Technology:</b>       | OAM - Operations,<br>Admin &<br>Maintenance |
| <b>Symptom:</b>             | Management Module may unexpectedly reload with the following stack trace:<br>Possible Stack Trace (function call return address list)<br>0002e2cc: assert_double_free_small_memory(pc)<br>0002e2c4: assert_double_free_small_memory(lr)<br>0002e4cc: free_memory_pool<br>0002eafc: free_memory<br>0002b0e0: dev_free_global<br>00005024: xsyscall<br>20a87fc0: FreeEvent<br>20ae7304: scp_event_callback<br>20b148d0: itc_process_msgs_internal<br>20b14a24: itc_process_msgs<br>20adf8a0: scp_task<br>00005e18: sys_end_task |                          |                                             |
| <b>Condition:</b>           | It is observed rarely on a MLX device, during removal of delay-link-event configuration.                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                                             |

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| <b>Parent Defect ID:</b>    | NI-21312                                                                        | <b>Issue ID:</b>         | NI-21377                                |
| <b>Severity:</b>            | S3 - Medium                                                                     |                          |                                         |
| <b>Product:</b>             | NetIron OS                                                                      | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer     |
| <b>Reported in Release:</b> | NI 05.8.00f                                                                     | <b>Technology:</b>       | OSPF - IPv4 Open<br>Shortest Path First |
| <b>Symptom:</b>             | Router ID not displayed correctly in 'show ip ospf' config output               |                          |                                         |
| <b>Condition:</b>           | 1. OSPF is configured on the device<br>2. router-id is configured on a loopback |                          |                                         |

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| <b>Parent Defect ID:</b>    | NI-17613                                                         | <b>Issue ID:</b>         | NI-21382                        |
| <b>Severity:</b>            | S3 - Medium                                                      |                          |                                 |
| <b>Product:</b>             | NetIron OS                                                       | <b>Technology Group:</b> | Management                      |
| <b>Reported in Release:</b> | NI 05.4.00ea                                                     | <b>Technology:</b>       | CLI - Command Line<br>Interface |
| <b>Symptom:</b>             | LP module uptime may show incorrect value                        |                          |                                 |
| <b>Condition:</b>           | Observed after LP reload with MP running for more than 1500 days |                          |                                 |

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| <b>Parent Defect ID:</b>    | NI-21371                                                                                                                        | <b>Issue ID:</b>         | NI-21386                                    |
| <b>Severity:</b>            | S3 - Medium                                                                                                                     |                          |                                             |
| <b>Product:</b>             | NetIron OS                                                                                                                      | <b>Technology Group:</b> | Monitoring                                  |
| <b>Reported in Release:</b> | NI 06.3.00b                                                                                                                     | <b>Technology:</b>       | OAM - Operations,<br>Admin &<br>Maintenance |
| <b>Symptom:</b>             | Port may not go down on 2x100G CFP2 Line card module                                                                            |                          |                                             |
| <b>Condition:</b>           | When "loopback system" configuration is removed from an interface having QSFP28-SR4 optic installed with no physical connection |                          |                                             |

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| <b>Parent Defect ID:</b>    | NI-21164                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Issue ID:</b>         | NI-21387                            |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                                     |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> | Management                          |
| <b>Reported in Release:</b> | NI 05.6.00j                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | FDP - Foundry<br>Discovery Protocol |
| <b>Symptom:</b>             | Management Module may unexpectedly reload with the following stack trace:-<br>Possible Stack Trace (function call return address list)<br>0002b1d0: free_memory_pool(pc)<br>0002b1c8: free_memory_pool(lr)<br>0002b800: free_memory<br>00027e3c: dev_free_memory<br>00005024: xsyscall<br>202ad558: os_free<br>206a5528: fdp_reallocate_cache_entry_data<br>206a56c8: fdp_reallocate_cache_entry<br>206a5778: fdp_release_one_fdp_cache_entry<br>206a6058: fdp_process_one_incoming_message<br>206a6284: fdp_process_fdp_cdp_pdu<br>20a1fa90: itc_process_msgs_internal<br>20a1fdd0: itc_process_msgs<br>206ae930: snms_task<br>00005e18: sys_end_task |                          |                                     |
| <b>Condition:</b>           | It is rarely observed when copying LP FPGA image with FDP/CDP enabled on a cluster configured MLX device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                     |

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| <b>Parent Defect ID:</b>    | NI-21219                                                                                                                                                                                                                                                                                                               | <b>Issue ID:</b>         | NI-21398                               |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                                                                                                                                                            |                          |                                        |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer    |
| <b>Reported in Release:</b> | NI 06.0.00g                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | BGP4 - IPv4 Border<br>Gateway Protocol |
| <b>Symptom:</b>             | The BGP default route originated and advertised to the peer, will not have the AS_PATH prepended as per the route-map applied                                                                                                                                                                                          |                          |                                        |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. BGP is enabled on the device</li> <li>2. There is a BGP peering exists with the neighbor</li> <li>3. A route-map "xxxx" is defined to prepend the AS_PATH to the default route</li> <li>3. "default-originate route-map xxxx" command configured for the neighbor</li> </ol> |                          |                                        |
| <b>Workaround:</b>          | neighbor x.x.x.x default-originate neighbor x.x.x.x route-map out AS-prepend                                                                                                                                                                                                                                           |                          |                                        |

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| <b>Parent Defect ID:</b>    | NI-17565                                                                                                                                                                                                                      | <b>Issue ID:</b>         | NI-21403                     |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                                                                   |                          |                              |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                    | <b>Technology Group:</b> | Traffic Management           |
| <b>Reported in Release:</b> | NI 06.0.00g                                                                                                                                                                                                                   | <b>Technology:</b>       | Rate Limiting and<br>Shaping |
| <b>Symptom:</b>             | Traffic may be dropped with the packet size larger than 1100 bytes                                                                                                                                                            |                          |                              |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. Port speed configured as 100M full duplex</li> <li>2. Rate-limit configured with cbs greater than 54000(256000/125000)bytes</li> <li>3. In the presence of burst traffic</li> </ol> |                          |                              |



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| <b>Parent Defect ID:</b>    | NI-21352                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Issue ID:</b>         | NI-21407                               |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                                        |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer    |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Technology:</b>       | BGP4 - IPv4 Border<br>Gateway Protocol |
| <b>Symptom:</b>             | Management Module may unexpectedly reload with the following stack trace:-<br>20f6c5a0: bgp_clear_out_policy_soft_outbound_callback(pc)<br>21044e2c: bgp_tree_partial_traverse(lr)<br>21044e2c: bgp_tree_partial_traverse<br>20f6cad0: bgp_clear_out_policy_soft_outbound<br>20f6c400: bgp_clear_one_neighbor_number_soft_outbound<br>20fd34c0: bgp_timer<br>20fd2aa0: bgp_timeout_func<br>20ba3ac0: itc_process_msgs_internal<br>20ba3f6c: itc_process_msgs<br>210275d8: bgp_task<br>00005e18: sys_end_task |                          |                                        |
| <b>Condition:</b>           | It is observed rarely while adding new BGP peers to the router and executing the BGP soft clear command like below:-<br><br>clear ip bgp neighbor x.x.x.x soft-outbound                                                                                                                                                                                                                                                                                                                                      |                          |                                        |

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| <b>Parent Defect ID:</b>    | NI-21317                                                                                                                                            | <b>Issue ID:</b>         | NI-21414                            |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                         |                          |                                     |
| <b>Product:</b>             | NetIron OS                                                                                                                                          | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                                         | <b>Technology:</b>       | Static Routing (IPv4)               |
| <b>Symptom:</b>             | May observe duplicate route entry messages on LP console like below:-<br>kbp_duplicate_entry_IP[0] idx : 0x0019ddbc tbl_id : 128 pfx :<br>0.0.0.0/0 |                          |                                     |
| <b>Condition:</b>           | Frequent route update and live traffic on device with IPv4 static default NULL0 route configured                                                    |                          |                                     |

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| <b>Parent Defect ID:</b>    | NI-21135                                                                                                                                                                      | <b>Issue ID:</b>         | NI-21415                            |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                   |                          |                                     |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                    | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                                                                   | <b>Technology:</b>       | Static Routing (IPv6)               |
| <b>Symptom:</b>             | May observe duplicate route entry messages on LP console like below:-<br>kbp_duplicate_entry_IPV6[0] idx : 0x0033a932 tbl_id : 144 pfx :00000000:00000000:00000000:00000000/0 |                          |                                     |
| <b>Condition:</b>           | 1.Addition and removal of IPv6 static default NULL0 route<br>2.IPv6 is disabled on interface                                                                                  |                          |                                     |

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| <b>Parent Defect ID:</b>    | NI-21195                                             | <b>Issue ID:</b>         | NI-21416                                    |
| <b>Severity:</b>            | S3 - Medium                                          |                          |                                             |
| <b>Product:</b>             | NetIron OS                                           | <b>Technology Group:</b> | Monitoring                                  |
| <b>Reported in Release:</b> | NI 06.0.00f                                          | <b>Technology:</b>       | OAM - Operations,<br>Admin &<br>Maintenance |
| <b>Symptom:</b>             | Port may not come up on 2x100G CFP2 Line card module |                          |                                             |
| <b>Condition:</b>           | In the presence of QSFP28-LR4-LP-10KM optic          |                          |                                             |

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| <b>Parent Defect ID:</b>    | NI-19279                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Issue ID:</b>         | NI-21417                                  |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                           |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer       |
| <b>Reported in Release:</b> | NI 05.7.00e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b>       | OSPFv3 - IPv6 Open<br>Shortest Path First |
| <b>Symptom:</b>             | Management Module may unexpectedly reload with the following stack trace:-<br>21112da8: ospf6_listnode_delete_count(pc)<br>21112f40: ospf6_lsdb_remove(lr)<br>21112f40: ospf6_lsdb_remove<br>21113644: ospf6_lsdb_install<br>2111f0f4: ospf6_dbex_receive_lsa<br>2111f80c: ospf6_ls_upd<br>2112069c: ospf6_message_process<br>21104644: ospf6_router_receive_packet_callback<br>20a55c34: itc_process_msgs_internal<br>20a55f6c: itc_process_msgs<br>21103e0c: ospf6_task<br>00005e18: sys_end_task |                          |                                           |
| <b>Condition:</b>           | OSPFv3 Cost changes on a scaled network                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |                                           |

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| <b>Parent Defect ID:</b>    | NI-9125                                                                                                     | <b>Issue ID:</b>         | NI-21419          |
| <b>Severity:</b>            | S3 - Medium                                                                                                 |                          |                   |
| <b>Product:</b>             | NetIron OS                                                                                                  | <b>Technology Group:</b> | Layer 2 Switching |
| <b>Reported in Release:</b> | NI 05.8.00f                                                                                                 | <b>Technology:</b>       | QnQ - IEEE 802.1Q |
| <b>Symptom:</b>             | Double tagged packets with both inner and outer tag-type as 8100 may get dropped on 20X10G Line card module |                          |                   |
| <b>Condition:</b>           | Ingress port is configured as tagged with tag-type 8100                                                     |                          |                   |

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| <b>Parent Defect ID:</b>    | NI-21238                                                               | <b>Issue ID:</b>         | NI-21420                            |
| <b>Severity:</b>            | S3 - Medium                                                            |                          |                                     |
| <b>Product:</b>             | NetIron OS                                                             | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer |
| <b>Reported in Release:</b> | NI 06.3.00b                                                            | <b>Technology:</b>       | Static Routing (IPv4)               |
| <b>Symptom:</b>             | Traffic may be forwarded by Line card CPU causing high CPU utilization |                          |                                     |
| <b>Condition:</b>           | Port is removed from GTP profile with PBR configured                   |                          |                                     |
| <b>Workaround:</b>          | Re-binding the IP/IPV6 PBR on the interface                            |                          |                                     |

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| <b>Parent Defect ID:</b>    | NI-21313                                | <b>Issue ID:</b>         | NI-21422                                    |
| <b>Severity:</b>            | S2 - High                               |                          |                                             |
| <b>Product:</b>             | NetIron OS                              | <b>Technology Group:</b> | Monitoring                                  |
| <b>Reported in Release:</b> | NI 06.0.00d                             | <b>Technology:</b>       | OAM - Operations,<br>Admin &<br>Maintenance |
| <b>Symptom:</b>             | 100G Links may observe sub second flaps |                          |                                             |
| <b>Condition:</b>           | Presence of Rev 2 CFP2 ER4 optic        |                          |                                             |

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| <b>Parent Defect ID:</b>    | NI-21210                                                                     | <b>Issue ID:</b>         | NI-21433                        |
| <b>Severity:</b>            | S3 - Medium                                                                  |                          |                                 |
| <b>Product:</b>             | NetIron OS                                                                   | <b>Technology Group:</b> | Management                      |
| <b>Reported in Release:</b> | NI 06.3.00b                                                                  | <b>Technology:</b>       | CLI - Command Line<br>Interface |
| <b>Symptom:</b>             | Incorrect media and optical information observed                             |                          |                                 |
| <b>Condition:</b>           | 1.On 100G module with QSFP28 optic<br>2.Port configured with loopback system |                          |                                 |

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| <b>Parent Defect ID:</b>    | NI-17635                                                                                             | <b>Issue ID:</b>         | NI-21434                                                  |
| <b>Severity:</b>            | S3 - Medium                                                                                          |                          |                                                           |
| <b>Product:</b>             | NetIron OS                                                                                           | <b>Technology Group:</b> | Monitoring                                                |
| <b>Reported in Release:</b> | NI 06.3.00b                                                                                          | <b>Technology:</b>       | RAS - Reliability,<br>Availability, and<br>Serviceability |
| <b>Symptom:</b>             | Port on 20x10G line card may flap.                                                                   |                          |                                                           |
| <b>Condition:</b>           | 1.'loopback system' is to be configured on port/interface<br>2.Presence of optics with no connection |                          |                                                           |

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| <b>Parent Defect ID:</b>    | NI-21223                                                                                          | <b>Issue ID:</b>         | NI-21435                                    |
| <b>Severity:</b>            | S3 - Medium                                                                                       |                          |                                             |
| <b>Product:</b>             | NetIron OS                                                                                        | <b>Technology Group:</b> | Monitoring                                  |
| <b>Reported in Release:</b> | NI 06.3.00b                                                                                       | <b>Technology:</b>       | OAM - Operations,<br>Admin &<br>Maintenance |
| <b>Symptom:</b>             | 10G port is initialized as 1G port speed                                                          |                          |                                             |
| <b>Condition:</b>           | 1. Any port in 20x10G module with no optic installed<br>2. Loopback system configured on the port |                          |                                             |

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| <b>Parent Defect ID:</b>    | NI-21357                                                                                                                                                                       | <b>Issue ID:</b>         | NI-21467            |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                      |                          |                     |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                     | <b>Technology Group:</b> | Security            |
| <b>Reported in Release:</b> | NI 06.0.00j                                                                                                                                                                    | <b>Technology:</b>       | IPsec - IP Security |
| <b>Symptom:</b>             | High LP CPU may be observed with IPsec data traffic                                                                                                                            |                          |                     |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. Route to tunnel destination changes</li> <li>2. IPsec data traffic received with mtu size greater than default value 1431</li> </ol> |                          |                     |

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| <b>Parent Defect ID:</b>    | NI-21400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Issue ID:</b>         | NI-21475                                |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                         |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer     |
| <b>Reported in Release:</b> | NI 06.2.00b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology:</b>       | OSPF - IPv4 Open<br>Shortest Path First |
| <b>Symptom:</b>             | <p>MLX/CER router may reload unexpectedly with the following stack trace:-</p> <p>Possible Stack Trace (function call return address list)</p> <p>20fdfea0: calculate_routes_to_a_single_external_destination(pc)</p> <p>20fdfe54: calculate_routes_to_a_single_external_destination(lr)</p> <p>20fdf80c: ospf_recalc_type5_route_chunk</p> <p>20fbb610: ospf_construct_routing_table</p> <p>20fca9b0: ospf_route_calculation_process</p> <p>20fa02f4: ospf_route_calc_task</p> <p>00040158: sys_end_task</p> |                          |                                         |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. OSPF is enabled on the device</li> <li>2. OSPF has learnt external LSAs with forwarding address, which is not reachable</li> </ol>                                                                                                                                                                                                                                                                                                                                  |                          |                                         |

## Closed with code changes R06.2.00d

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of June 2019 in NetIron 06.2.00d.

**Note: Parent Defect ID is the customer found Defect ID. The Issue ID is the tracking number uniquely used to check in the fix for each major release.**

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| <b>Parent Defect ID:</b>    | NI-9412                                                          | <b>Issue ID:</b>         | NI-10514                                  |
| <b>Severity:</b>            | S2 - High                                                        |                          |                                           |
| <b>Product:</b>             | NetIron OS                                                       | <b>Technology Group:</b> | Management                                |
| <b>Reported in Release:</b> | NI 05.8.00fb                                                     | <b>Technology:</b>       | SNMP - Simple Network Management Protocol |
| <b>Symptom:</b>             | The maximum response time for SNMP polling may go around 300msec |                          |                                           |
| <b>Condition:</b>           | SNMP walk for snIfOpticalMonitoringInfoTable                     |                          |                                           |

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| <b>Parent Defect ID:</b>    | NI-8524                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Issue ID:</b>         | NI-10816                 |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                          |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Technology Group:</b> | MPLS                     |
| <b>Reported in Release:</b> | NI 06.0.00a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology:</b>       | MPLS Traffic Engineering |
| <b>Symptom:</b>             | <p>Device may reload unexpectedly with the following stack trace:-<br/>Possible Stack Trace (function call return address list)</p> <pre> 2159f290: rrr_pkt_edit_rcv(pc) 2159f260: rrr_pkt_edit_rcv(lr) 21d1adf8: rsvp_pkt_process 21d19b48: rrr_rcv_rsvp_message 21d8da74: rrr_rcv_sck_data_msg2 21d8d7a8: rrr_rcv_sck_data_msg 21d8a970: rrip_sock_to_rsvp_proc 21dae0ac: rri_receive_proc 214a1a7c: nbb_dispatch_process 214a0eb8: nbb_schedule_one 214a1370: nbb_scheduler 214af9d4: nbb_spin_start 214a49d8: nbs_spin_start 216aef54: mpls_rsvp_recive_data_itc_callback 20b8fe8c: itc_process_msgs_internal 20b90338: itc_process_msgs 2170a434: mpls_task 00005e18: sys_end_task                 </pre> |                          |                          |
| <b>Condition:</b>           | On reception of Malformed MPLS RSVP Hello packet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                          |
| <b>Workaround:</b>          | Disable RSVP Hello Packet from the peer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                          |

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| <b>Parent Defect ID:</b>    | NI-3836                                                                                                                                       | <b>Issue ID:</b>         | NI-11762                     |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                   |                          |                              |
| <b>Product:</b>             | 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>             | LACP counter statistics may display boundary values like 42949672 or 429496729 unless the relevant LACP packets are actually received or sent |                          |                              |
| <b>Condition:</b>           | On execution of 'show lacp' cli command                                                                                                       |                          |                              |

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| <b>Parent Defect ID:</b>    | NI-9350                                                                                                                                                                                                                                | <b>Issue ID:</b>         | NI-14044                             |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                                                                            |                          |                                      |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                             | <b>Technology Group:</b> | Layer 3 Routing/Network Layer        |
| <b>Reported in Release:</b> | NI 05.8.00g                                                                                                                                                                                                                            | <b>Technology:</b>       | OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b>             | OSPF neighbors may show all ECMP paths after upgraded MLXe fails setting a forwarding address in AS External LSA.                                                                                                                      |                          |                                      |
| <b>Condition:</b>           | It is rarely observed with the following steps:-<br>(1) OSPFv2 is enabled on the device<br>(2) static routes are configured with gateway, which is reachable and redistributed into OSPFv2<br>(3) Repeated image upgrade and downgrade |                          |                                      |

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| <b>Parent Defect ID:</b>    | NI-9649                                                                                                                                                                                                                                                                                                           | <b>Issue ID:</b>         | NI-14356                    |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                                                                                                         |                          |                             |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                        | <b>Technology Group:</b> | Security                    |
| <b>Reported in Release:</b> | NI 06.2.00                                                                                                                                                                                                                                                                                                        | <b>Technology:</b>       | ACLs - Access Control Lists |
| <b>Symptom:</b>             | Loss of connectivity and ARP is not resolved                                                                                                                                                                                                                                                                      |                          |                             |
| <b>Condition:</b>           | 1. MLX is upgraded to 6.0a and above versions with 4x10G module<br>2. L4 deny all ACL applied on the physical interface as given below:-<br>ip access-list extended ABC<br>permit ip x.0.0.0 0.0.0.y any<br>deny ip any any<br>interface ethernet a/b<br>enable<br>ip address x.0.0.z/y<br>ip access-group ABC in |                          |                             |

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| <b>Parent Defect ID:</b>    | NI-9760                                                                                                                                                                      | <b>Issue ID:</b>         | NI-14499           |
| <b>Severity:</b>            | S2 – High                                                                                                                                                                    |                          |                    |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                   | <b>Technology Group:</b> | Layer 2 Switching  |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                                                                  | <b>Technology:</b>       | VLAN - Virtual LAN |
| <b>Symptom:</b>             | Sometimes SSH session may not respond                                                                                                                                        |                          |                    |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. Pasting large configuration list of commands around 20K lines</li> <li>2. Another session is opened for the same device</li> </ol> |                          |                    |

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| <b>Parent Defect ID:</b>    | NI-9763                                                                                                                                                                                                                                          | <b>Issue ID:</b>         | NI-14506                                |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                                                                                      |                          |                                         |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                       | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer     |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                                                                                                                                      | <b>Technology:</b>       | BGP4+ - IPv6 Border<br>Gateway Protocol |
| <b>Symptom:</b>             | show commands in BGP may not filter expected entries on certain conditions                                                                                                                                                                       |                          |                                         |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. Regular expression used to filter the BGP entries</li> <li>2. BGP prefixes with repeated numbers/values in the expression<br/>ex: show ip bgp sum   i x.x.y to filter prefixes like z.x.x.y</li> </ol> |                          |                                         |

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| <b>Parent Defect ID:</b>    | NI-9959                                                                                    | <b>Issue ID:</b>         | NI-14641                             |
| <b>Severity:</b>            | S2 - High                                                                                  |                          |                                      |
| <b>Product:</b>             | NetIron OS                                                                                 | <b>Technology Group:</b> | MPLS                                 |
| <b>Reported in Release:</b> | NI 06.2.00b                                                                                | <b>Technology:</b>       | LDP - Label<br>Distribution Protocol |
| <b>Symptom:</b>             | Ping may fail from non-default VRF to default VRF over MPLS                                |                          |                                      |
| <b>Condition:</b>           | Route towards the destination is learnt on MPLS entry interface which is under default-VRF |                          |                                      |

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| <b>Parent Defect ID:</b>    | NI-9961                                                                             | <b>Issue ID:</b>         | NI-14649                                           |
| <b>Severity:</b>            | S3 - Medium                                                                         |                          |                                                    |
| <b>Product:</b>             | NetIron OS                                                                          | <b>Technology Group:</b> | Management                                         |
| <b>Reported in Release:</b> | NI 06.2.00b                                                                         | <b>Technology:</b>       | SNMP - Simple<br>Network<br>Management<br>Protocol |
| <b>Symptom:</b>             | Show statistics CLI may display incorrect out utilization for 100G Line card module |                          |                                                    |
| <b>Condition:</b>           | Observed with traffic rate more than 55Gbps                                         |                          |                                                    |



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| <b>Parent Defect ID:</b>    | NI-9962                                                                                                                                    | <b>Issue ID:</b>         | NI-14656                            |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                |                          |                                     |
| <b>Product:</b>             | NetIron OS                                                                                                                                 | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer |
| <b>Reported in Release:</b> | NI 06.2.00b                                                                                                                                | <b>Technology:</b>       | Static Routing (IPv4)               |
| <b>Symptom:</b>             | Line card module CPU usage may go high                                                                                                     |                          |                                     |
| <b>Condition:</b>           | 1. Static route configured for a host<br>2. Along with the reception of traffic for the configured host<br>ex:<br>ip route a.b.c.d/32 ve x |                          |                                     |

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| <b>Parent Defect ID:</b>    | NI-17369                                                                                                                                                                | <b>Issue ID:</b>         | NI-17394                            |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                             |                          |                                     |
| <b>Product:</b>             | NetIron OS                                                                                                                                                              | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer |
| <b>Reported in Release:</b> | NI 05.8.00d                                                                                                                                                             | <b>Technology:</b>       | Static Routing (IPv4)               |
| <b>Symptom:</b>             | Unstable routes with continuous route updation observed in the MLX under specific condition                                                                             |                          |                                     |
| <b>Condition:</b>           | When static route configured with next-hop-vrf as non-default VRF<br>Ex:<br>vrf vrf0X<br>rd a:b<br>address-family ipv4<br>ip route x.x.x.x/y next-hop-vrf vrf0Y z.z.z.z |                          |                                     |

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| <b>Parent Defect ID:</b>    | NI-17371                                                                                                                        | <b>Issue ID:</b>         | NI-17412                            |
| <b>Severity:</b>            | S3 - Medium                                                                                                                     |                          |                                     |
| <b>Product:</b>             | NetIron OS                                                                                                                      | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                     | <b>Technology:</b>       | IPv6 Addressing                     |
| <b>Symptom:</b>             | IPv6 neighborship may not be established                                                                                        |                          |                                     |
| <b>Condition:</b>           | When IPv6 neighbor solicitation request is received from the peer with source address same as configured interface IPV6 address |                          |                                     |

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| <b>Parent Defect ID:</b>    | NI-17372                                                                                                                                                                                                 | <b>Issue ID:</b>         | NI-17419                                |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                |                          |                                         |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                               | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer     |
| <b>Reported in Release:</b> | NI 06.0.00gd                                                                                                                                                                                             | <b>Technology:</b>       | OSPF - IPv4 Open<br>Shortest Path First |
| <b>Symptom:</b>             | Router LSA links may stuck in STUB type with OSPF neighbors in FULL or LOADING state                                                                                                                     |                          |                                         |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>The OSPF ABR upgraded to 6.0gd</li> <li>ABR has at least 3 neighbors including 1 or 2 in non-backbone areas and originates more than 2000 Summary LSAs</li> </ol> |                          |                                         |

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| <b>Parent Defect ID:</b>    | NI-14753                                                                                                                                                                                  | <b>Issue ID:</b>         | NI-17467                               |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                 |                          |                                        |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer    |
| <b>Reported in Release:</b> | NI 05.8.00f                                                                                                                                                                               | <b>Technology:</b>       | BGP4 - IPv4 Border<br>Gateway Protocol |
| <b>Symptom:</b>             | MLX may send BGP update message with empty AS-SET Path attribute to BGP peer. The update messages would be dropped by peer due to incorrect or empty AS-SET path information.             |                          |                                        |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>When BGP neighbor is configured with "remove-private-as" command on MLX device</li> <li>Private AS number is exist/connected in network</li> </ol> |                          |                                        |

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| <b>Parent Defect ID:</b>    | NI-17438                                                                                                                                 | <b>Issue ID:</b>         | NI-17567                       |
| <b>Severity:</b>            | S3 - Medium                                                                                                                              |                          |                                |
| <b>Product:</b>             | NetIron OS                                                                                                                               | <b>Technology Group:</b> | Management                     |
| <b>Reported in Release:</b> | NI 06.2.00b                                                                                                                              | <b>Technology:</b>       | NTP - Network Time<br>Protocol |
| <b>Symptom:</b>             | NTP packets may not be authenticated after upgrade from 6.2b releases                                                                    |                          |                                |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>Configured IPv6 on the NTP server</li> <li>Configured management VRF with IPv6 address</li> </ol> |                          |                                |

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| <b>Parent Defect ID:</b>    | NI-9740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Issue ID:</b>         | NI-21155                               |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                                        |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer    |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Technology:</b>       | BGP4 - IPv4 Border<br>Gateway Protocol |
| <b>Symptom:</b>             | Management module may reload unexpectedly with the below stack trace:-<br>20eb7b5c: debug_assert(pc)<br>20fa325c: bgp_RIB_out_delete_NLRI(lr)<br>20fa325c: bgp_RIB_out_delete_NLRI<br>20fb4150: bgp_add_or_remove_ribout_if_necessary<br>20fb8e00:<br>bgp_check_and_update_bgp_route_in_ip_table_as_necessary<br>20faabdc: bgp_RIB_in_add_route<br>21050d44: bgp_process_NLRI_fields<br>2104a6fc: bgp_process_update_message_from_peer<br>20f8f23c: bgp_process_update_message_received_event<br>20f87a88: bgp_execute_bgp_finite_state_machine<br>21047f34: bgp_process_received_message<br>20fc0538: bgp_tcp_receive_call<br>20fd2884: bgp_io_process<br>21027630: bgp_io_task<br>00005e18: sys_end_task |                          |                                        |
| <b>Condition:</b>           | 1. Router configured with 'advertise-best-external' for BGP<br>2. Churn in the BGP network due to change in the best-external path repeatedly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                                        |

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| <b>Parent Defect ID:</b>    | NI-14761                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Issue ID:</b>         | NI-21191                                 |
| <b>Severity:</b>            | S1 - Critical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                          |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Technology Group:</b> | MPLS                                     |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b>       | MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b>             | <p>24X10G Line card module may reload unexpectedly with the below stack trace:-</p> <pre> 20b6a954: darter_ppcr_dword_read(pc) 20b75ac4: darter_ppcr_retrieve_mvid(lr) 20b76468: darter_ppcr_retrieve_mvid_index 20a8b92c: ppcr_retrieve_mvid 20a66eb4: ppcr_dm_mmpls_entry 20963428: yyparse 20920378: sys_parse 20c7692c: cli_lp_parser_cmds 20c62aa0: call_action_func 20c632ec: parse_node 20c62da0: parse_node_recurse 20c63430: parse_node 20c622a4: parser 20c69f58: parse_input 2091ff58: sys_console_input_process 207f6b9c: lp_console_task 00040158: sys_end_task </pre> |                          |                                          |
| <b>Condition:</b>           | Rarely observed during the execution of this debug command 'dm entry me/1 mmpls <index>'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                          |

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| <b>Parent Defect ID:</b>    | NI-9624                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Issue ID:</b>         | NI-21202                                |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                         |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer     |
| <b>Reported in Release:</b> | NI 06.0.00e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology:</b>       | OSPF - IPv4 Open<br>Shortest Path First |
| <b>Symptom:</b>             | <p>Management Module may unexpectedly reload with the following stack trace:-</p> <pre> 210ea558: ospf_free_route_entry(pc) 210e97c4: ospf_delete_dspt_asbr_entry_callback(lr) 210e97c4: ospf_delete_dspt_asbr_entry_callback 2033fff4: ip4_delete_entire_trie 210e9830: ospf_clear_dspt_asbr_routing_table 210e52d8: ospf_dspt_clear_whole_table 22077304: ospf_lsp_shortcut_destroy 2109ccc8: ospf_disable_operation_of_ospf_protocol 210fbaf8: restart_ospf 210fbb58: clear_ospf_all 210c36fc: cu_clear_ospf_all_callback 20ba069c: itc_process_msgs_internal 20ba0b48: itc_process_msgs 210ba678: ospf_task 00005e18: sys_end_task </pre> |                          |                                         |
| <b>Condition:</b>           | <p>It is observed rarely on a MLX/XMR device,</p> <ol style="list-style-type: none"> <li>1. With high scale of routes in a MCT, VRF and OSPF configured device</li> <li>2. On restarting the OSPF process</li> </ol> <p>ex: clear ip ospf vrf vrf-name all</p>                                                                                                                                                                                                                                                                                                                                                                                |                          |                                         |

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| <b>Parent Defect ID:</b>    | NI-9593                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Issue ID:</b>         | NI-21226                        |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                 |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology Group:</b> | Traffic Management              |
| <b>Reported in Release:</b> | NI 06.0.00d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Technology:</b>       | Traffic Queueing and Scheduling |
| <b>Symptom:</b>             | <p>Line card may reload unexpectedly with the below stack trace:-<br/>Possible Stack Trace (function call return address list)</p> <pre> rw2_collect_stats_via_dma_4x40(pc) rw2_collect_stats_via_dma_4x40(lr) rw2_collect_stats_via_dma rw2_collect_stats_via_direct_read_4x40 rw2_collect_stats_via_direct_read rw2_read_petra_stats_direct_read_at_index Fap20v_hw_read_per_q_counters fap20v_read_n_return_per_q_counters lp_get_tm_one_voq_data_stat scp_show_tm_voq_stat scp_info_mplp_show_process_ipc mplp_show_process_ipc ipc_multi_module_handler ipc_process_messages ipc_receive_packet ge_process_ipc_data_msg lp_ipc_task sys_end_task </pre> |                          |                                 |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. Reception of CPU traffic like unknown unicast or protocol</li> <li>2. On repeated execution of the command "show tm-voq-stat" for CPU traffic</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                                 |

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| <b>Parent Defect ID:</b>    | NI-14775                                                                                                                                                                                                                                   | <b>Issue ID:</b>         | NI-21228                                       |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                                  |                          |                                                |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                 | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer            |
| <b>Reported in Release:</b> | NI 06.3.00a                                                                                                                                                                                                                                | <b>Technology:</b>       | ICMP - Internet<br>Control Message<br>Protocol |
| <b>Symptom:</b>             | Host may fail to ping directly connected virtual interface and packets may get dropped in NP as Routed Packet drops                                                                                                                        |                          |                                                |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. when a port is configured as untagged port in default VLAN and associated with virtual interface</li> <li>2. Rarely observed during repeated disconnection of directly connected host</li> </ol> |                          |                                                |
| <b>Workaround:</b>          | Remove and re-add the untagged port configuration from default VLAN                                                                                                                                                                        |                          |                                                |

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| <b>Parent Defect ID:</b>    | NI-14763                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Issue ID:</b>         | NI-21230                               |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                        |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer    |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Technology:</b>       | BGP4 - IPv4 Border<br>Gateway Protocol |
| <b>Symptom:</b>             | Management Module may unexpectedly reload with the following<br>stack trace:-<br>20ff5f58: bgp_print_flap_statistics_entry(pc)<br>20ff5f54: bgp_print_flap_statistics_entry(lr)<br>20ff6414: bgp_get_flap_statistics_page_itc_handler<br>2100b2c0: bgp_show_dampening_itc_request_callback<br>20ba3ac0: itc_process_msgs_internal<br>20ba3f6c: itc_process_msgs<br>210275d8: bgp_task<br>00005e18: sys_end_task |                          |                                        |
| <b>Condition:</b>           | It is observed rarely on a MLX/XMR device when,<br>1. "show ip bgp flap-statistics" is executed<br>2. Dampening events also occurs in parallel                                                                                                                                                                                                                                                                  |                          |                                        |

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| <b>Parent Defect ID:</b>    | NI-14748                                                                                                                           | <b>Issue ID:</b>         | NI-21239                            |
| <b>Severity:</b>            | S2 - High                                                                                                                          |                          |                                     |
| <b>Product:</b>             | NetIron OS                                                                                                                         | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer |
| <b>Reported in Release:</b> | NI 06.0.00a                                                                                                                        | <b>Technology:</b>       | IPv6 Addressing                     |
| <b>Symptom:</b>             | IPv6 neighborhood may not be established                                                                                           |                          |                                     |
| <b>Condition:</b>           | When IPv6 neighbor solicitation request is received from the peer<br>with source address same as configured interface IPV6 address |                          |                                     |

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| <b>Parent Defect ID:</b>    | NI-17559                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Issue ID:</b>         | NI-21246         |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                  |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Technology Group:</b> | Security         |
| <b>Reported in Release:</b> | NI 06.0.00d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology:</b>       | TACACS & TACACS+ |
| <b>Symptom:</b>             | <p>Active MM module may be reloaded unexpectedly with the below stack trace.</p> <p>Possible Stack Trace (function call return address list)</p> <p>207bf470: tacplus_create_md5_hash(pc)</p> <p>207bf448: tacplus_create_md5_hash(lr)</p> <p>207bf54c: tacplus_md5_xor</p> <p>207bb67c: tacplus_send_account_pkt</p> <p>2079ef3c: aaa_tcp_outgoing_connection_ready_callback</p> <p>20ba0540: itc_process_msgs_internal</p> <p>20ba09ec: itc_process_msgs</p> <p>207d62d0: snms_task</p> <p>00005e18: sys_end_task</p> |                          |                  |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. Configured TACACS+ accounting for CLI commands by specifying the privilege level as 0 as below<br/>aaa accounting commands 0 default start-stop tacacs+</li> <li>2. with TACACS+ server key of 30 characters</li> <li>3. Continuous execution of command "show ip interface" from SSH</li> </ol>                                                                                                                                                                              |                          |                  |



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| <b>Parent Defect ID:</b>    | NI-21231                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Issue ID:</b>         | NI-21249                            |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                                     |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer |
| <b>Reported in Release:</b> | NI 06.2.00a                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Technology:</b>       | IPv6 Addressing                     |
| <b>Symptom:</b>             | <p>Line card may reload with the following stack trace :-<br/>Possible Stack Trace (function call return address list)</p> <pre> 21685920: memset(pc) 20c09860: generic_get_mem_from_pool(lr) 20fcd940: ip6_get_free_cache_entry 20faf9fc: ip6_process_route_lookup 20faa738: ipv6_fwd_unicast_packet 20fac984: ipv6_packet_receive 20f350e0: rx_pkt_processing 20d8b720: lp_pkt_receive 20a1deb4: ppcr_recieve_packet 207f3360: lp_pbif_packet_task 00040158: sys_end_task </pre> |                          |                                     |
| <b>Condition:</b>           | Processing large number of ICMPv6 echo request packets for unknown destination hosts with 'ipv6 max-host-drop-cam' configured                                                                                                                                                                                                                                                                                                                                                      |                          |                                     |
| <b>Workaround:</b>          | <p>Avoiding the maximum host drop cam configuration will help for this issue</p> <pre>[no] ipv6 max-host-drop-cam[&lt;limit&gt;]</pre>                                                                                                                                                                                                                                                                                                                                             |                          |                                     |

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| <b>Parent Defect ID:</b>    | NI-17643                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Issue ID:</b>         | NI-21264                                |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                                         |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer     |
| <b>Reported in Release:</b> | NI 06.2.00b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology:</b>       | BGP4+ - IPv6 Border<br>Gateway Protocol |
| <b>Symptom:</b>             | <p>Line card may reload with the following stack trace :-<br/>Possible Stack Trace (function call return address list)</p> <pre> 21599ae8: kbp_lpm_db_delete_entry(pc) 2156b540: kbp_db_delete_entry(lr) 2156b540: kbp_db_delete_entry 20b52af4: netroute_create_db_entry 20b3ed0c: xpp10ge_write_ppcr_cam 20b3c9d8: xpp10ge_write_ppcr_entry 20a4973c: chancer_ppcr_create_entry 20d22acc: lp_cam_add_ipv6_route_with_nh 20d232f4: lp_cam_add_ipv6_route 20fb1d68: ip6_add_network_route_to_l3_cam 20fb0a50: ip6_add_routes_in_cam_for_netroute 20fb0b80: ip6_update_routes_in_cam 20fa0a18: rtm6_ipv6_process_slave 20fa0f48: rtm6_ipv6_add_route_slave 20fa3a28: ipv6_dp_trie_process_one_route_update 20fa3d6c: ipv6_dp_trie_process_route_update 20fa3ea8: ipv6_process_tree_dy_messages 20fa5470: ipv6_process_tree_dy_messages_unicast 20bd7628: process_dy_change_packet 20c214e8: ipc_multi_module_handler 20c23a5c: ipc_process_messages 20c24238: ipc_receive_packet 20036d5c: ge_process_ipc_data_msg 207f2cdc: lp_ipc_task 00040158: sys_end_task </pre> |                          |                                         |
| <b>Condition:</b>           | Processing large number of ICMPv6 echo request packets for unknown destination hosts with ' ipv6 max-host-drop-cam' configured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                         |
| <b>Workaround:</b>          | Avoiding the maximum host drop cam configuration will help for this issue<br>[no] ipv6 max-host-drop-cam[<limit>]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                         |

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| <b>Parent Defect ID:</b>    | NI-21172                                                                                                                              | <b>Issue ID:</b>         | NI-21275                                            |
| <b>Severity:</b>            | S3 - Medium                                                                                                                           |                          |                                                     |
| <b>Product:</b>             | NetIron OS                                                                                                                            | <b>Technology Group:</b> | Monitoring                                          |
| <b>Reported in Release:</b> | NI 06.0.00h                                                                                                                           | <b>Technology:</b>       | RAS - Reliability, Availability, and Serviceability |
| <b>Symptom:</b>             | Port may go down on 4x10G line card module                                                                                            |                          |                                                     |
| <b>Condition:</b>           | Presence of non-brocade TWINAX SFPP optic<br>Note: "phy disable-equalization" will be allowed for 4x10G as well in addition to 8x10G. |                          |                                                     |

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| <b>Parent Defect ID:</b>    | NI-17614                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Issue ID:</b>         | NI-21276                               |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                                        |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer    |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Technology:</b>       | BGP4 - IPv4 Border<br>Gateway Protocol |
| <b>Symptom:</b>             | Active Management Module may reload with the following stack trace:-<br>Possible Stack Trace (function call return address list)<br>20f76924: bgp_check_for_fwd_address(pc)<br>20fb9534:<br>bgp_check_and_update_bgp_route_in_ip_table_as_necessary(lr)<br>20fb9534:<br>bgp_check_and_update_bgp_route_in_ip_table_as_necessary<br>20ff447c: bgp_route_damping_timer_event<br>20fd7478: bgp_timer<br>20fd2a68: bgp_timeout_func<br>20ba3ac0: itc_process_msgs_internal<br>20ba3f6c: itc_process_msgs<br>210275d8: bgp_task<br>00005e18: sys_end_task |                          |                                        |
| <b>Condition:</b>           | Frequent route flap and route churn with BGP dampening configured on the device                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                                        |

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| <b>Parent Defect ID:</b>    | NI-9765                                                                                                                         | <b>Issue ID:</b>         | NI-21286                              |
| <b>Severity:</b>            | S3 - Medium                                                                                                                     |                          |                                       |
| <b>Product:</b>             | NetIron OS                                                                                                                      | <b>Technology Group:</b> | Monitoring                            |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                     | <b>Technology:</b>       | OAM - Operations, Admin & Maintenance |
| <b>Symptom:</b>             | Link may stay down for 2x100G CFP2 Line card                                                                                    |                          |                                       |
| <b>Condition:</b>           | In the presence of third party LR4 range of optics<br>Note: Enabling 'fec' in CLI will now be allowed for LR4 to fix this issue |                          |                                       |

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| <b>Parent Defect ID:</b>    | NI-17554                                                                          | <b>Issue ID:</b>         | NI-21288   |
| <b>Severity:</b>            | S3 - Medium                                                                       |                          |            |
| <b>Product:</b>             | NetIron OS                                                                        | <b>Technology Group:</b> | Monitoring |
| <b>Reported in Release:</b> | NI 06.0.00g                                                                       | <b>Technology:</b>       | Syslog     |
| <b>Symptom:</b>             | Latched Low, High Optical Monitoring Messages are observed in syslog periodically |                          |            |
| <b>Condition:</b>           | Even though values are normal from "show optic" command values                    |                          |            |

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| <b>Parent Defect ID:</b>    | NI-17440                                                                                                                                                  | <b>Issue ID:</b>         | NI-21296                  |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                               |                          |                           |
| <b>Product:</b>             | NetIron OS                                                                                                                                                | <b>Technology Group:</b> | Traffic Management        |
| <b>Reported in Release:</b> | NI 06.0.00c                                                                                                                                               | <b>Technology:</b>       | Rate Limiting and Shaping |
| <b>Symptom:</b>             | High LP CPU may be observed on 20x10G and 2x100G CFP2 Line card module                                                                                    |                          |                           |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. Configure policy-map and apply ARP rate-limit globally</li> <li>2. Received ARP traffic at high rate</li> </ol> |                          |                           |

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| <b>Parent Defect ID:</b>    | NI-17590                                                                                                                                                                                                                                                                                                                                                                                   | <b>Issue ID:</b>         | NI-21303                                                         |
| <b>Severity:</b>            | S2 - High                                                                                                                                                                                                                                                                                                                                                                                  |                          |                                                                  |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer                              |
| <b>Reported in Release:</b> | NI 06.0.00f                                                                                                                                                                                                                                                                                                                                                                                | <b>Technology:</b>       | IS-IS - IPv6<br>Intermediate System<br>to Intermediate<br>System |
| <b>Symptom:</b>             | ISIS level 1 routes are not redistributed to Level 2 database                                                                                                                                                                                                                                                                                                                              |                          |                                                                  |
| <b>Condition:</b>           | <p>1. Interface is configured with circuit type Level 1<br/>ex:<br/>int eth x/y<br/>isis circuit-type level-1</p> <p>2. Device is configured as level-1-2 router to redistribute the inter area routes from Level-1 into Level-2 database.<br/>ex:<br/>address-family ipv4 unicast<br/>default-metric y<br/>maximum-paths x<br/>metric-style wide<br/>redistribute connected level-1-2</p> |                          |                                                                  |
| <b>Workaround:</b>          | Configuring ISIS circuit-type level-1-2 on the interface facing Level-1 network                                                                                                                                                                                                                                                                                                            |                          |                                                                  |

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| <b>Parent Defect ID:</b>    | NI-17677                                                                                                                                                                                                | <b>Issue ID:</b>         | NI-21325                       |
| <b>Severity:</b>            | S3 - Medium                                                                                                                                                                                             |                          |                                |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                              | <b>Technology Group:</b> | Security                       |
| <b>Reported in Release:</b> | NI 06.2.00c                                                                                                                                                                                             | <b>Technology:</b>       | ACLs - Access Control<br>Lists |
| <b>Symptom:</b>             | MLX console may respond slow and SSH through VE interfaces/inband are slow                                                                                                                              |                          |                                |
| <b>Condition:</b>           | <p>1. Applying ACL with more rules to many virtual interfaces</p> <p>2. Start continuous traffic from source matching applied ACL rules</p> <p>3. Enable 'acl-accounting' and 'sflow' on interfaces</p> |                          |                                |

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| <b>Parent Defect ID:</b>    | NI-17668                                                                                        | <b>Issue ID:</b>         | NI-21326                                         |
| <b>Severity:</b>            | S2 - High                                                                                       |                          |                                                  |
| <b>Product:</b>             | NetIron OS                                                                                      | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer              |
| <b>Reported in Release:</b> | NI 05.6.00j                                                                                     | <b>Technology:</b>       | DHCP - Dynamic Host<br>Configuration<br>Protocol |
| <b>Symptom:</b>             | MLX may not learn the DHCPv6 Relay delegated prefixes for client                                |                          |                                                  |
| <b>Condition:</b>           | On receiving DHCP reply packet from server containing more than one DHCPv6 Relay reply messages |                          |                                                  |

## Closed with code changes R06.2.00c

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 10/24/2018 in NetIron 06.2.00c.

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| <b>Defect ID:</b>           | DEFECT000633774                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                     |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b>      | Medium                              |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology Group:</b> | BGP4 - IPv4 Border Gateway Protocol |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | Layer 3 Routing/Network Layer       |
| <b>Symptom:</b>             | Standby Management Module may unexpectedly reload with the following stack trace:-<br>Possible Stack Trace (function call return address list)<br>20ec94d4: bgp_check_for_fwd_address(pc)<br>20ec93ec: bgp_check_for_fwd_address(lr)<br>20efbd18: bgp_RIB_in_delete_route<br>20f7952c: bgp_check_for_aggrgation<br>20effd40: bgp_remove_route_advertisement<br>20efbdf4: bgp_RIB_in_delete_route<br>20efda08: bgp_vrf_RIB_in_delete_all_self_nlrns<br>20eb4e88: bgp_clear_all_vrf_neighbors<br>20f57744: bgp_clear_neighbor_itc_request_callback<br>20b14584: itc_process_msgs_internal<br>20b14a24: itc_process_msgs<br>20f73ed8: bgp_task<br>00005e18: sys_end_task |                          |                                     |
| <b>Condition:</b>           | Execution of "clear ip bgp neighbor all" command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                                     |

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| <b>Defect ID:</b>           | DEFECT000656284                                                      |                          |                           |
| <b>Technical Severity:</b>  | High                                                                 | <b>Probability:</b>      | Low                       |
| <b>Product:</b>             | NetIron OS                                                           | <b>Technology Group:</b> | Rate Limiting and Shaping |
| <b>Reported In Release:</b> | NI 05.8.00                                                           | <b>Technology:</b>       | Traffic Management        |
| <b>Symptom:</b>             | Rate limit traffic drops may not be observed on the configured port. |                          |                           |
| <b>Condition:</b>           | On execution of 'clear rate-limit counters'.                         |                          |                           |
| <b>Workaround:</b>          | Reload the line card.                                                |                          |                           |

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| <b>Defect ID:</b>           | DEFECT000658040                                                                                                |                          |                     |
| <b>Technical Severity:</b>  | High                                                                                                           | <b>Probability:</b>      | High                |
| <b>Product:</b>             | NetIron OS                                                                                                     | <b>Technology Group:</b> | IPsec - IP Security |
| <b>Reported In Release:</b> | NI 06.1.00                                                                                                     | <b>Technology:</b>       | Security            |
| <b>Symptom:</b>             | IPsec tunnel session would not come up.                                                                        |                          |                     |
| <b>Condition:</b>           | This could happen when the IPsec configuration on a linecard module is out of sync with the management module. |                          |                     |
| <b>Recovery:</b>            | Reload the LC may recover from the problem. If not, reload of the system will be required.                     |                          |                     |

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| <b>Defect ID:</b>           | DEFECT000658072                                                                                        |                          |                            |
| <b>Technical Severity:</b>  | Low                                                                                                    | <b>Probability:</b>      | Medium                     |
| <b>Product:</b>             | NetIron OS                                                                                             | <b>Technology Group:</b> | PBR - Policy-Based Routing |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                             | <b>Technology:</b>       | Security                   |
| <b>Symptom:</b>             | GTP-u packet with L3 header as IPv4 and L4 header as IPv6 not forwarded with the IPv6 PBR on GTP port. |                          |                            |
| <b>Condition:</b>           | Configure IPv6 PBR and enable ingress-inner-filter on GTP port.                                        |                          |                            |
| <b>Workaround:</b>          | Configure any IPv4 PBR with IPv6 PBR and bind it to the same GTP port.                                 |                          |                            |

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| <b>Defect ID:</b>           | DEFECT000658409                                                                                                                                                                                                                                                                                                                                                             |                          |                                     |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                                                                                                                                                      | <b>Probability:</b>      | Low                                 |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                  | <b>Technology Group:</b> | BGP4 - IPv4 Border Gateway Protocol |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                  | <b>Technology:</b>       | Layer 3 Routing/Network Layer       |
| <b>Symptom:</b>             | BGP doesn't advertise component routes after applying the 'unsuppress-map' configuration.                                                                                                                                                                                                                                                                                   |                          |                                     |
| <b>Condition:</b>           | <p>(1) BGP configured with 'router bgp' command.</p> <p>(2) 'aggregate-address' command configured to advertise the summary route for all the component routes that fall within the summary address.</p> <p>(3) Configure component routes with network command and apply the unsuppress-map command to the neighbors for which component routes need to be advertised.</p> |                          |                                     |
| <b>Recovery:</b>            | Remove and reconfigure 'aggregate-address x.x.x.x summary-only' command followed by the execution of 'clear ip bgp neighbor all' or device reload.                                                                                                                                                                                                                          |                          |                                     |



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| <b>Defect ID:</b>           | DEFECT000658414                        |                          |                    |
| <b>Technical Severity:</b>  | High                                   | <b>Probability:</b>      | Low                |
| <b>Product:</b>             | NetIron OS                             | <b>Technology Group:</b> | SSH - Secure Shell |
| <b>Reported In Release:</b> | NI 06.0.00                             | <b>Technology:</b>       | Security           |
| <b>Symptom:</b>             | SSH Authentication may fail sometimes. |                          |                    |
| <b>Condition:</b>           | Using RSA public key authentication.   |                          |                    |

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| <b>Defect ID:</b>           | DEFECT000658936                                                                                                    |                          |                                           |
| <b>Technical Severity:</b>  | High                                                                                                               | <b>Probability:</b>      | Low                                       |
| <b>Product:</b>             | NetIron OS                                                                                                         | <b>Technology Group:</b> | SNMP - Simple Network Management Protocol |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                         | <b>Technology:</b>       | Management                                |
| <b>Symptom:</b>             | SNMP task may cause High CPU.                                                                                      |                          |                                           |
| <b>Condition:</b>           | Polling the OIDs of the tables .ipNetToPhysicalTable.(1.3.6.1.2.1.4.35) and .ipNetToMediaTable.(1.3.6.1.2.1.4.22). |                          |                                           |

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| <b>Defect ID:</b>           | DEFECT000659364                                                                                                                                                                                                                                                    |                          |                                     |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                               | <b>Probability:</b>      | Medium                              |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                         | <b>Technology Group:</b> | BGP4 - IPv4 Border Gateway Protocol |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                         | <b>Technology:</b>       | Layer 3 Routing/Network Layer       |
| <b>Symptom:</b>             | Static routes may not be advertised into BGP                                                                                                                                                                                                                       |                          |                                     |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. BGP neighborhood is established with the neighbor</li> <li>2. "filter-change-update-delay 0" is configured</li> <li>3. Static routes are configured and redistributed into BGP</li> <li>4. Reload the chassis</li> </ol> |                          |                                     |
| <b>Recovery:</b>            | clear ip route a.b.c.d/x                                                                                                                                                                                                                                           |                          |                                     |

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| <b>Defect ID:</b>           | DEFECT000659434                                                              |                          |                     |
| <b>Technical Severity:</b>  | Medium                                                                       | <b>Probability:</b>      | High                |
| <b>Product:</b>             | NetIron OS                                                                   | <b>Technology Group:</b> | Hardware Monitoring |
| <b>Reported In Release:</b> | NI 06.0.00                                                                   | <b>Technology:</b>       | Monitoring          |
| <b>Symptom:</b>             | A 10G interface runs at 1G speed.                                            |                          |                     |
| <b>Condition:</b>           | Specific to 20x10G line card when a port is configured for loop back system. |                          |                     |

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| <b>Defect ID:</b>           | DEFECT000659435                                              |                          |                             |
| <b>Technical Severity:</b>  | Medium                                                       | <b>Probability:</b>      | Medium                      |
| <b>Product:</b>             | NetIron OS                                                   | <b>Technology Group:</b> | ACLs - Access Control Lists |
| <b>Reported In Release:</b> | NI 06.2.00                                                   | <b>Technology:</b>       | Security                    |
| <b>Symptom:</b>             | IPv6 ACL accounting doesn't include PBR routed packets.      |                          |                             |
| <b>Condition:</b>           | Configure IPv6 PBR with the set clause as "interface null0". |                          |                             |

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| <b>Defect ID:</b>           | DEFECT000660056                                                                   |                          |                              |
| <b>Technical Severity:</b>  | High                                                                              | <b>Probability:</b>      | Medium                       |
| <b>Product:</b>             | NetIron OS                                                                        | <b>Technology Group:</b> | LAG - Link Aggregation Group |
| <b>Reported In Release:</b> | NI 06.0.00                                                                        | <b>Technology:</b>       | Layer 2 Switching            |
| <b>Symptom:</b>             | LAG Load balancing may not be observed for GTP-c packets.                         |                          |                              |
| <b>Condition:</b>           | 1) GTP has to be enabled on the port.<br>2) GTP-c TEID hashing should be enabled. |                          |                              |

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| <b>Defect ID:</b>           | DEFECT000660187                                                                                           |                          |                               |
| <b>Technical Severity:</b>  | Medium                                                                                                    | <b>Probability:</b>      | Low                           |
| <b>Product:</b>             | NetIron OS                                                                                                | <b>Technology Group:</b> | IP Addressing                 |
| <b>Reported In Release:</b> | NI 05.4.00                                                                                                | <b>Technology:</b>       | Layer 3 Routing/Network Layer |
| <b>Symptom:</b>             | Management port accepts packets corresponding to the same subnet of the lowest IPv4 primary address only. |                          |                               |
| <b>Condition:</b>           | On configuring multiple IPv4 primary address on management port.                                          |                          |                               |

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| <b>Defect ID:</b>           | DEFECT000660397                                                   |                          |                                        |
| <b>Technical Severity:</b>  | Medium                                                            | <b>Probability:</b>      | Medium                                 |
| <b>Product:</b>             | NetIron OS                                                        | <b>Technology Group:</b> | OSPFv3 - IPv6 Open Shortest Path First |
| <b>Reported In Release:</b> | NI 06.0.00                                                        | <b>Technology:</b>       | Layer 3 Routing/Network Layer          |
| <b>Symptom:</b>             | Routes through dead DR Other Router stays reachable in DR OSPFv3. |                          |                                        |
| <b>Condition:</b>           | DR Other Router goes down/disabled.                               |                          |                                        |
| <b>Workaround:</b>          | Wait for MaxAge to remove dead router's LSAs.                     |                          |                                        |

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| <b>Defect ID:</b>           | DEFECT000660592                                                                                                                                                                   |                          |                                     |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                            | <b>Probability:</b>      | Low                                 |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                        | <b>Technology Group:</b> | Static Routing (IPv4)               |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                        | <b>Technology:</b>       | Layer 3<br>Routing/Network<br>Layer |
| <b>Symptom:</b>             | CPU may go High with the following ITC Queue full messages: -<br>dest app id = 0x0000000c : src app id = 0x00000014 : msg type =<br>0x00140002 : error = ITC_ERR_DEST_QUEUE_FULL. |                          |                                     |
| <b>Condition:</b>           | 12k IPv4 or IPv6 static routes.                                                                                                                                                   |                          |                                     |

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| <b>Defect ID:</b>           | DEFECT000660830                                                                                                                                                                               |                          |                                     |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                          | <b>Probability:</b>      | Low                                 |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                    | <b>Technology Group:</b> | Multi-VRF                           |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                    | <b>Technology:</b>       | Layer 3<br>Routing/Network<br>Layer |
| <b>Symptom:</b>             | Line card module may go high with the following error message on<br>Line card console:-<br>kbp_duplicate_entry_IPDAVC[0] idx : 0x002b198f tbl_id : 48 vc_label<br>= 500010, pfx : x.y.0.0/16. |                          |                                     |
| <b>Condition:</b>           | 1. SA learning enabled for routed packets.<br>2. Connected VRF route is leaked into another VRF for which label<br>redistribution is blocked by BGP route map.                                |                          |                                     |

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| <b>Defect ID:</b>           | DEFECT000660953                                                                                                                                                            |                          |                                        |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                     | <b>Probability:</b>      | Low                                    |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                 | <b>Technology Group:</b> | BGP4 - IPv4 Border<br>Gateway Protocol |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                 | <b>Technology:</b>       | Layer 3<br>Routing/Network<br>Layer    |
| <b>Symptom:</b>             | Following error messages may be observed on MLX in Line card<br>console:-<br>kbp_duplicate_entry_IPVPN[0] idx : 0x00200bee tbl_id : 32 vpn_id =<br>4099, pfx : x.y.0.0/32. |                          |                                        |
| <b>Condition:</b>           | On the reception of route update message for /32 prefix which<br>matches local IP's network part.                                                                          |                          |                                        |

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| <b>Defect ID:</b>           | DEFECT000661006                                                                 |                          |                    |
| <b>Technical Severity:</b>  | Medium                                                                          | <b>Probability:</b>      | Medium             |
| <b>Product:</b>             | NetIron OS                                                                      | <b>Technology Group:</b> | IPv6 over MPLS VPN |
| <b>Reported In Release:</b> | NI 05.8.00                                                                      | <b>Technology:</b>       | MPLS               |
| <b>Symptom:</b>             | IPv6 ping over vrf for remote BGP prefixes may not work on loopback interfaces. |                          |                    |
| <b>Condition:</b>           | IPV6 prefixes learnt on user-vrf loopback interface through BGP over MPLS.      |                          |                    |

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| <b>Defect ID:</b>           | DEFECT000661201                                                                                                                                     |                          |                                      |
| <b>Technical Severity:</b>  | Medium                                                                                                                                              | <b>Probability:</b>      | Low                                  |
| <b>Product:</b>             | NetIron OS                                                                                                                                          | <b>Technology Group:</b> | BGP4+ - IPv6 Border Gateway Protocol |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                          | <b>Technology:</b>       | Layer 3<br>Routing/Network<br>Layer  |
| <b>Symptom:</b>             | Ipv6 BGP peering session may encounter "Optional attribute error".                                                                                  |                          |                                      |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. IPv6 Additional-Paths option is enabled.</li> <li>2. Processed withdraw message from neighbor.</li> </ol> |                          |                                      |

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| <b>Defect ID:</b>           | DEFECT000661318                                                                                                                                                                                                                                     |                          |                                     |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                              | <b>Probability:</b>      | Low                                 |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                          | <b>Technology Group:</b> | BGP4 - IPv4 Border Gateway Protocol |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                          | <b>Technology:</b>       | Layer 3<br>Routing/Network<br>Layer |
| <b>Symptom:</b>             | BGP Route Reflector does not reflect VPNv4 or VPNv6 routes to reflector clients.                                                                                                                                                                    |                          |                                     |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. Routes should be learned in BGP Route Reflector for address family VPNv4 or VPNv6.</li> <li>2. Execute 'clear ip bgp vpnv4 neighbor &lt;neighbor-ip&gt; soft-outbound' in BGP Route Reflector.</li> </ol> |                          |                                     |
| <b>Recovery:</b>            | 'clear ip bgp neighbor <neighbor-ip>' in BGP Route Reflector.                                                                                                                                                                                       |                          |                                     |

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| <b>Defect ID:</b>           | DEFECT000661401                                                                                                                                                                                                                                                           |                          |                                        |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                      | <b>Probability:</b>      | Medium                                 |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                | <b>Technology Group:</b> | OSPFv3 - IPv6 Open Shortest Path First |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                | <b>Technology:</b>       | Layer 3 Routing/Network Layer          |
| <b>Symptom:</b>             | OSPFv3 and IPV6 neighborship not formed with remote VPLS peer.                                                                                                                                                                                                            |                          |                                        |
| <b>Condition:</b>           | Remote vpls peer configured with IPv6 on OSPFv3 interface with MPLS ttl policy applied.                                                                                                                                                                                   |                          |                                        |
| <b>Workaround:</b>          | <p>Either of the following can be applied</p> <ol style="list-style-type: none"> <li>1. Remove the commands `vrf-propagate-ttl` and `label-propagate-ttl` enabled under 'router mpls' configurations.</li> <li>or</li> <li>2. Configure static ipv6 neighbors.</li> </ol> |                          |                                        |

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| <b>Defect ID:</b>           | DEFECT000661407                                                     |                          |                                        |
| <b>Technical Severity:</b>  | High                                                                | <b>Probability:</b>      | Medium                                 |
| <b>Product:</b>             | NetIron OS                                                          | <b>Technology Group:</b> | OSPFv3 - IPv6 Open Shortest Path First |
| <b>Reported In Release:</b> | NI 06.0.00                                                          | <b>Technology:</b>       | Layer 3 Routing/Network Layer          |
| <b>Symptom:</b>             | IPv6 traffic may not be forwarded over VEOVPLS interface.           |                          |                                        |
| <b>Condition:</b>           | MPLS LSP primary path goes down on disabling the VEOVPLS interface. |                          |                                        |
| <b>Workaround:</b>          | clear mpls lsp <lsp-name>                                           |                          |                                        |

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| <b>Defect ID:</b>           | DEFECT000661413                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                     |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b>      | Low                                 |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology Group:</b> | BGP4 - IPv4 Border Gateway Protocol |
| <b>Reported In Release:</b> | NI 05.6.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | Layer 3<br>Routing/Network<br>Layer |
| <b>Symptom:</b>             | <p>CES/CER device may unexpectedly reload with the following stack trace:-</p> <p>Possible Stack Trace (function call return address list)</p> <p>20069c74: update_nh_hw_resource(pc)<br/> 20069b24: update_nh_hw_resource(lr)<br/> 20069fd8: write_nh_hw_entry<br/> 200731c0: update_nh_hw_entry<br/> 20069348: update_next_hop_entry<br/> 2006b0d0: update_backlink_table<br/> 2006b80c: mark_route_info_changed<br/> 2048dc58: lp_cam_update_arp_entry_pram<br/> 205bb284: process_one_arp_update_lp<br/> 20591dd0: process_one_arp_update<br/> 205920ec: process_arp_dy_messages<br/> 2034b01c: process_dy_change_packet<br/> 2037facc: ipc_multi_module_handler<br/> 2038222c: ipc_process_messages<br/> 203829ec: ipc_receive_packet<br/> 2037d308: ge_process_ipc_data_msg<br/> 2037d690: ge_process_ipc_msg<br/> 200b962c: metro_sys_loop<br/> 200af638: main<br/> 00040158: sys_end_task</p> |                          |                                     |
| <b>Condition:</b>           | Very rarely occurs with CER is configured as one of the BGP Speaker and processing ARP update messages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                     |

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| <b>Defect ID:</b>           | DEFECT000661452                                                                                                                                                                                                         |                          |                                     |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                    | <b>Probability:</b>      | Low                                 |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                              | <b>Technology Group:</b> | BGP4 - IPv4 Border Gateway Protocol |
| <b>Reported In Release:</b> | NI 06.2.00                                                                                                                                                                                                              | <b>Technology:</b>       | Layer 3 Routing/Network Layer       |
| <b>Symptom:</b>             | BGP routes learnt on Route Reflector for some of the existing clients might get lost.                                                                                                                                   |                          |                                     |
| <b>Condition:</b>           | New route reflector client is added to the existing clients within the same VRF.                                                                                                                                        |                          |                                     |
| <b>Recovery:</b>            | Recovered by any one of the following steps:-<br>1. 'Clear ip bgp vpnv4 neighbor all soft in'.<br>2. 'Clear ip bgp vpnv4 neighbor all soft'.<br>3. Forcing each and every Route Reflector client to resend BGP updates. |                          |                                     |

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| <b>Defect ID:</b>           | DEFECT000661617                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                      |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b>      | Low                                  |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology Group:</b> | OSPF - IPv4 Open Shortest Path First |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | Layer 3 Routing/Network Layer        |
| <b>Symptom:</b>             | Active Management module may unexpectedly reload with the following stack trace:-<br>20ff077c: ospf_find_neighbor_from_grace_lsa(pc)<br>2104293c: age_the_link_state_database_entry(lr)<br>2104293c: age_the_link_state_database_entry<br>21041e0c: ospf_process_age_lsdb_entry<br>21041144: ospf_router_timer<br>2100a244: ospf_timer_callback<br>20b16280: itc_process_msgs_internal<br>20b16720: itc_process_msgs<br>2100a5b8: ospf_task<br>00005e18: sys_end_task |                          |                                      |
| <b>Condition:</b>           | Occurs very rarely when the OSPF process is restarted from a problematic neighboring device to recover.                                                                                                                                                                                                                                                                                                                                                               |                          |                                      |

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| <b>Defect ID:</b>           | DEFECT000661713                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                     |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Probability:</b>      | Low                                 |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Technology Group:</b> | IPv6 Addressing                     |
| <b>Reported In Release:</b> | NI 06.2.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Technology:</b>       | Layer 3<br>Routing/Network<br>Layer |
| <b>Symptom:</b>             | <p>Line card module may reload unexpectedly with the following stack trace:-</p> <pre> 20a1cc64: ppcr_tx_packet(pc) 20a1d658: ppcr_tx_held_packet(lr) 20a1d658: ppcr_tx_held_packet 20fd8ce4: nd6_forward_ppcr_pending_pkt 20fd940c: nd6_process_all_pending_packets 20fd7a40: nd6_delete_neighbor_entry_from_cache 20fbc928: nd6_slave_incomplete_nei_aging_handler 20fbcad4: nd6_slave_incomplete_nei_aging 20fbc9b4: nd6_slave_timer 20fb90b8: ipv6_slave_timer 20005a74: perform_callback 2000647c: timer_timeout 00040160: sys_end_entry 0005e4a0: suspend 0005cf78: dev_sleep 00005024: xsyscall 207f1664: main 00040158: sys_end_task </pre> |                          |                                     |
| <b>Condition:</b>           | Very rarely occurs with large number of incomplete ND6 (IPv6 neighbor discovery) entries.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                                     |

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| <b>Defect ID:</b>           | DEFECT000661716                                                                                              |                          |            |
| <b>Technical Severity:</b>  | Medium                                                                                                       | <b>Probability:</b>      | Medium     |
| <b>Product:</b>             | NetIron OS                                                                                                   | <b>Technology Group:</b> | sFlow      |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                   | <b>Technology:</b>       | Monitoring |
| <b>Symptom:</b>             | Extended MPLS VC data and Switch data's outgoing 802.1q VLAN may not be observed in SFLOW forwarded packets. |                          |            |
| <b>Condition:</b>           | SFLOW enabled for VPLS local switched packets.                                                               |                          |            |



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| <b>Defect ID:</b>           | DEFECT000661722                                                               |                          |                     |
| <b>Technical Severity:</b>  | Medium                                                                        | <b>Probability:</b>      | Low                 |
| <b>Product:</b>             | NetIron OS                                                                    | <b>Technology Group:</b> | IPsec - IP Security |
| <b>Reported In Release:</b> | NI 06.0.00                                                                    | <b>Technology:</b>       | Security            |
| <b>Symptom:</b>             | User may observe that IPSEC tunnel goes down and doesn't recover to up state. |                          |                     |
| <b>Condition:</b>           | User may observe this on a system with scaled IPSEC configuration.            |                          |                     |

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| <b>Defect ID:</b>           | DEFECT000661730                                             |                          |                             |
| <b>Technical Severity:</b>  | Medium                                                      | <b>Probability:</b>      | Low                         |
| <b>Product:</b>             | NetIron OS                                                  | <b>Technology Group:</b> | NTP - Network Time Protocol |
| <b>Reported In Release:</b> | NI 05.8.00                                                  | <b>Technology:</b>       | Management                  |
| <b>Symptom:</b>             | MLX, CES/CER may display incorrect Daylight/Summer time.    |                          |                             |
| <b>Condition:</b>           | For Australia (GMT+10) and New Zealand (GMT+12) time zones. |                          |                             |

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| <b>Defect ID:</b>           | DEFECT000661805                                                |                          |                                      |
| <b>Technical Severity:</b>  | High                                                           | <b>Probability:</b>      | Low                                  |
| <b>Product:</b>             | NetIron OS                                                     | <b>Technology Group:</b> | PIM - Protocol-Independent Multicast |
| <b>Reported In Release:</b> | NI 06.0.00                                                     | <b>Technology:</b>       | IP Multicast                         |
| <b>Symptom:</b>             | Multicast traffic forwarding may fail on MLX with High LP CPU. |                          |                                      |
| <b>Condition:</b>           | When source traffic moves to a different port on same VE.      |                          |                                      |
| <b>Recovery:</b>            | clear ip pim mcache                                            |                          |                                      |

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| <b>Defect ID:</b>           | DEFECT000661859                                                                                                                                                                          |                          |                              |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                   | <b>Probability:</b>      | Medium                       |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                               | <b>Technology Group:</b> | LAG - Link Aggregation Group |
| <b>Reported In Release:</b> | NI 06.3.00                                                                                                                                                                               | <b>Technology:</b>       | Layer 2 Switching            |
| <b>Symptom:</b>             | For LACP based LAG deployment, device connected to NI device is not showing LAG member interface in down/Blocked state while NI device interfaces are LACP-Blocked.                      |                          |                              |
| <b>Condition:</b>           | This is a mis-configuration scenario where two or more interfaces connected to NI device in a LAG topology and one of member interface is incorrectly configured with different LAG Key. |                          |                              |
| <b>Workaround:</b>          | Configure same key on device connected to NI device.                                                                                                                                     |                          |                              |
| <b>Recovery:</b>            | Configure same key on device connected to NI device.                                                                                                                                     |                          |                              |

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| <b>Defect ID:</b>           | DEFECT000661865                                                                                                                            |                          |                                          |
| <b>Technical Severity:</b>  | Medium                                                                                                                                     | <b>Probability:</b>      | Low                                      |
| <b>Product:</b>             | NetIron OS                                                                                                                                 | <b>Technology Group:</b> | ICMP - Internet Control Message Protocol |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                 | <b>Technology:</b>       | Layer 3 Routing/Network Layer            |
| <b>Symptom:</b>             | IPv6 traffic may not be forwarded to destined port.                                                                                        |                          |                                          |
| <b>Condition:</b>           | Specific to Ipv6 Hop-by-hop and fragmented packets.                                                                                        |                          |                                          |
| <b>Workaround:</b>          | Frequency of this issue can be lowered by configuring maximum value in the below configuration command.<br>"ipv6 nd reachable-time <secs>" |                          |                                          |

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| <b>Defect ID:</b>           | DEFECT000661906                                                                                                                                                                                                                                                                                                                                                                                            |                          |                           |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Probability:</b>      | Low                       |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology Group:</b> | Rate Limiting and Shaping |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology:</b>       | Traffic Management        |
| <b>Symptom:</b>             | <p>Unexpected traffic loss in transit node with Class 0 Remap index updated as "54" instead of "0" in the following rate-limit output :-</p> <pre> LP#dm rate-limit ppcr 0 0 : : Class Bound CIR   CBS   ACCRT   EIR   EBS   ACERT   Remap Remark ----- 0  RX  5464064 10928128 10928128  5464064  10928128 10928128 '54'   0 0  TX  5464064 10928128 10928128  5464064  10928128 10928128 '54'   0 </pre> |                          |                           |
| <b>Condition:</b>           | <p>This is very rare scenario and happens on executing clear rate-limit counters multiple times when IP Receive ACL configured with Rate-limit policy in the router.</p> <p>ex :</p> <pre> conf t   policy-map rl-icmp     cir 993568 cbs 2000000   end conf t   ip receive access-list 192 sequence 30 policy-map rl-icmp end </pre>                                                                      |                          |                           |

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| <b>Defect ID:</b>           | DEFECT000661933                                                       |                          |                             |
| <b>Technical Severity:</b>  | Medium                                                                | <b>Probability:</b>      | Low                         |
| <b>Product:</b>             | NetIron OS                                                            | <b>Technology Group:</b> | ACLs - Access Control Lists |
| <b>Reported In Release:</b> | NI 06.0.00                                                            | <b>Technology:</b>       | Security                    |
| <b>Symptom:</b>             | The command 'ipv6 receive deactivate-acl-all' may not work sometimes. |                          |                             |
| <b>Condition:</b>           | Observed after router reload.                                         |                          |                             |
| <b>Recovery:</b>            | Remove and reconfigure the command 'ipv6 receive deactivate-acl-all'. |                          |                             |

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| <b>Defect ID:</b>           | DEFECT000662025                                                                                                                              |                          |                          |
| <b>Technical Severity:</b>  | High                                                                                                                                         | <b>Probability:</b>      | Medium                   |
| <b>Product:</b>             | NetIron OS                                                                                                                                   | <b>Technology Group:</b> | MPLS Traffic Engineering |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                   | <b>Technology:</b>       | MPLS                     |
| <b>Symptom:</b>             | FRR Facility backup LSP is not up.                                                                                                           |                          |                          |
| <b>Condition:</b>           | When "ip ospf passive" is configured on interface, there is no notification sent to MPLS daemon to cause TE flush or RSVP IGP sync reaction. |                          |                          |

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| <b>Defect ID:</b>           | DEFECT000662137                                                                            |                          |                                      |
| <b>Technical Severity:</b>  | Medium                                                                                     | <b>Probability:</b>      | Medium                               |
| <b>Product:</b>             | NetIron OS                                                                                 | <b>Technology Group:</b> | PIM - Protocol-Independent Multicast |
| <b>Reported In Release:</b> | NI 06.2.00                                                                                 | <b>Technology:</b>       | IP Multicast                         |
| <b>Symptom:</b>             | Pim (*,G) entries formed in default vrf are also observed in non-default vrf mcache table. |                          |                                      |
| <b>Condition:</b>           | On executing the command 'clear ip pim vrf <vrf-name> mcache'.                             |                          |                                      |

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| <b>Defect ID:</b>           | DEFECT000662194                                     |                          |                     |
| <b>Technical Severity:</b>  | Medium                                              | <b>Probability:</b>      | Low                 |
| <b>Product:</b>             | NetIron OS                                          | <b>Technology Group:</b> | Hardware Monitoring |
| <b>Reported In Release:</b> | NI 06.0.00                                          | <b>Technology:</b>       | Monitoring          |
| <b>Symptom:</b>             | 'show optic <slot>' does not show any light levels. |                          |                     |
| <b>Condition:</b>           | It is specific to third-party QSFP28-CFP2 optic.    |                          |                     |

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| <b>Defect ID:</b>           | DEFECT000662202                                                                                                        |                          |                              |
| <b>Technical Severity:</b>  | Medium                                                                                                                 | <b>Probability:</b>      | Low                          |
| <b>Product:</b>             | NetIron OS                                                                                                             | <b>Technology Group:</b> | CLI - Command Line Interface |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                             | <b>Technology:</b>       | Management                   |
| <b>Symptom:</b>             | 'show chassis' displays power supply status as "Installed (Failed or Disconnected)" instead of "Installed (Shutdown)". |                          |                              |
| <b>Condition:</b>           | When 2100W power supply is manually powered off using command 'power-off power-supply #'.                              |                          |                              |

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| <b>Defect ID:</b>           | DEFECT000662210                                                                                                                                                                                                                                                     |                          |                                      |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                                              | <b>Probability:</b>      | Medium                               |
| <b>Product:</b>             | NetIron OS                                                                                                                                                                                                                                                          | <b>Technology Group:</b> | BGP4+ - IPv6 Border Gateway Protocol |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                          | <b>Technology:</b>       | Layer 3 Routing/Network Layer        |
| <b>Symptom:</b>             | BGP multipaths are not happened properly for BGP IPv6 routes that are learned in VRF.                                                                                                                                                                               |                          |                                      |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. iBGP neighborship established with 2 neighbors in VRF.</li> <li>2. BGP multipaths are enabled.</li> <li>3. The same route is advertised from both the neighbors with the same local_pref, MED, ORIGIN, weight.</li> </ol> |                          |                                      |
| <b>Workaround:</b>          | Configure "always-compare-med" in 'router bgp'.                                                                                                                                                                                                                     |                          |                                      |

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| <b>Defect ID:</b>           | DEFECT000662260                                                          |                          |                           |
| <b>Technical Severity:</b>  | Medium                                                                   | <b>Probability:</b>      | Medium                    |
| <b>Product:</b>             | NetIron OS                                                               | <b>Technology Group:</b> | Rate Limiting and Shaping |
| <b>Reported In Release:</b> | NI 06.2.00                                                               | <b>Technology:</b>       | Traffic Management        |
| <b>Symptom:</b>             | Burst traffic may be forwarded more than the configured rate on CES/CER. |                          |                           |
| <b>Condition:</b>           | Bursty traffic with Rate-limit is configured on the interface.           |                          |                           |

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| <b>Defect ID:</b>           | DEFECT000662321                                          |                          |                                            |
| <b>Technical Severity:</b>  | Medium                                                   | <b>Probability:</b>      | Medium                                     |
| <b>Product:</b>             | NetIron OS                                               | <b>Technology Group:</b> | DHCP - Dynamic Host Configuration Protocol |
| <b>Reported In Release:</b> | NI 05.8.00                                               | <b>Technology:</b>       | Layer 3 Routing/Network Layer              |
| <b>Symptom:</b>             | High CPU may be observed on CER.                         |                          |                                            |
| <b>Condition:</b>           | Processed high rate of fragmented DHCP protocol packets. |                          |                                            |

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| <b>Defect ID:</b>           | DEFECT000663193                                                                                                          |                          |                                     |
| <b>Technical Severity:</b>  | High                                                                                                                     | <b>Probability:</b>      | Low                                 |
| <b>Product:</b>             | NetIron OS                                                                                                               | <b>Technology Group:</b> | BGP4 - IPv4 Border Gateway Protocol |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                               | <b>Technology:</b>       | Layer 3 Routing/Network Layer       |
| <b>Symptom:</b>             | BGP static network routes might not get advertised to the peers.                                                         |                          |                                     |
| <b>Condition:</b>           | On Reload with BGP "static-network" routes configured<br>Note: This may be observed from NI6.0 and higher releases only. |                          |                                     |
| <b>Recovery:</b>            | Removing and adding back the static-network command.                                                                     |                          |                                     |

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| <b>Defect ID:</b>           | DEFECT000664218                                                    |                          |            |
| <b>Technical Severity:</b>  | Low                                                                | <b>Probability:</b>      | Low        |
| <b>Product:</b>             | NetIron OS                                                         | <b>Technology Group:</b> | Syslog     |
| <b>Reported In Release:</b> | NI 06.2.00                                                         | <b>Technology:</b>       | Monitoring |
| <b>Symptom:</b>             | Telnet client may not be observed in 'show logging' as configured. |                          |            |
| <b>Condition:</b>           | 'telnet client <ip-address>' is configured from a telnet session.  |                          |            |

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| <b>Defect ID:</b>           | DEFECT000666110                                                         |                          |                              |
| <b>Technical Severity:</b>  | High                                                                    | <b>Probability:</b>      | Low                          |
| <b>Product:</b>             | NetIron OS                                                              | <b>Technology Group:</b> | CLI - Command Line Interface |
| <b>Reported In Release:</b> | NI 05.9.00                                                              | <b>Technology:</b>       | Management                   |
| <b>Symptom:</b>             | 'show media' and 'show optic' may display "N/A" or "NOT SUPPORTED".     |                          |                              |
| <b>Condition:</b>           | Line card reloaded with 'loopback system' configured on port/interface. |                          |                              |

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| <b>Defect ID:</b>           | DEFECT000666900                                                                                                                                 |                          |                              |
| <b>Technical Severity:</b>  | High                                                                                                                                            | <b>Probability:</b>      | Low                          |
| <b>Product:</b>             | NetIron OS                                                                                                                                      | <b>Technology Group:</b> | CLI - Command Line Interface |
| <b>Reported In Release:</b> | NI 06.2.00                                                                                                                                      | <b>Technology:</b>       | Management                   |
| <b>Symptom:</b>             | LAG creation through EVM shows successful even though it is failed in device with the following error message :-<br>LAG test deployment failed! |                          |                              |
| <b>Condition:</b>           | LAG creation through EVM with participating LAG member ports do not have similar properties                                                     |                          |                              |

## Closed with code changes R06.2.00b

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 04/06/2018 in NetIron 06.2.00b.

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| <b>Defect ID:</b>           | DEFECT000659772                                                                                      |                          |                     |
| <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 06.0.00                                                                                           | <b>Technology:</b>       | Hardware Monitoring |
| <b>Symptom:</b>             | Fiber Version of CES/CER may power down.                                                             |                          |                     |
| <b>Condition:</b>           | Very rarely switch models of NI CER-2024F-4X and NI CES-2024F-4X may power down and doesn't come up. |                          |                     |

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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> | DHCP - Dynamic Host Configuration Protocol |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                    | <b>Technology:</b>       | Layer 3 Routing/Network Layer              |
| <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>           | <p>(1) configure a VE interface through which DHCP clients are configured and DHCP snooping is enabled</p> <p>(2) configure a second VE interface on which DHCP clients are connected through a DHCP relay agent, but DHCP snooping is not enabled</p> <p>(3) configure another VE interface on which DHCP server resides</p> |                          |                                            |

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| <b>Defect ID:</b>           | DEFECT000642455                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                      |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Probability:</b>      | Medium                               |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology Group:</b> | OSPF - IPv4 Open Shortest Path First |
| <b>Reported In Release:</b> | NI 05.6.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology:</b>       | Layer 3 Routing/Network Layer        |
| <b>Symptom:</b>             | Standby Management Module may unexpectedly reload with the following stack trace:-<br>Possible Stack Trace (function call return address list)<br>203afea4: nht_get_specific_index_from_pool(pc)<br>203b31fc: nht_create_new_entry_standby(lr)<br>203b31fc: nht_create_new_entry_standby<br>203b3d38: nht_standby_mp_update_entry<br>203b56a4: nht_standby_mp_process_dy_messages<br>2033a738: process_dy_change_packet<br>2032192c: ipc_process_messages<br>20322600: ipc_receive_packet<br>20f3cc70: sw_receive_packet<br>20f3d778: mp_rx_main<br>00005e18: sys_end_task |                          |                                      |
| <b>Condition:</b>           | It is observed rarely on a MLX/XMR device with OSPF, VRRP or MPLS combination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                                      |

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| <b>Defect ID:</b>           | DEFECT000644574                                                                                                                                                                                                                        |                          |                                      |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                 | <b>Probability:</b>      | Low                                  |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                     | <b>Technology Group:</b> | OSPF - IPv4 Open Shortest Path First |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                                                                             | <b>Technology:</b>       | Layer 3 Routing/Network Layer        |
| <b>Symptom:</b>             | OSPF neighbors may show all ECMP paths after upgraded MLXe fails setting a forwarding address in AS External LSA.                                                                                                                      |                          |                                      |
| <b>Condition:</b>           | It is rarely observed with the following steps:-<br>(1) OSPFv2 is enabled on the device<br>(2) static routes are configured with gateway, which is reachable and redistributed into OSPFv2<br>(3) Repeated image upgrade and downgrade |                          |                                      |
| <b>Recovery:</b>            | Flapping the interface towards the gateway will resolve the issue.                                                                                                                                                                     |                          |                                      |



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| <b>Defect ID:</b>           | DEFECT000645700                                                                |                          |            |
| <b>Technical Severity:</b>  | Low                                                                            | <b>Probability:</b>      | Low        |
| <b>Product:</b>             | Brocade NetIron OS                                                             | <b>Technology Group:</b> | Sysmon     |
| <b>Reported In Release:</b> | NI 05.8.00                                                                     | <b>Technology:</b>       | Monitoring |
| <b>Symptom:</b>             | Execution of "sysmon sfm walk status" command may not return to command prompt |                          |            |
| <b>Condition:</b>           | Execution of "sysmon sfm walk status" from telnet or ssh                       |                          |            |
| <b>Workaround:</b>          | Execute "sysmon sfm walk status" from console session                          |                          |            |
| <b>Recovery:</b>            | A return key will help                                                         |                          |            |

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| <b>Defect ID:</b>           | DEFECT000646227                                                                                                                       |                          |                                             |
| <b>Technical Severity:</b>  | Medium                                                                                                                                | <b>Probability:</b>      | Medium                                      |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                    | <b>Technology Group:</b> | OAM - Operations,<br>Admin &<br>Maintenance |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                            | <b>Technology:</b>       | Monitoring                                  |
| <b>Symptom:</b>             | Link may go down with Brocade 100G-LR4 CFP2 optic                                                                                     |                          |                                             |
| <b>Condition:</b>           | Rarely observed when a interface is disabled and then enabled with Brocade 100G-LR4 CFP2 optic having serial number starting from YDF |                          |                                             |

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| <b>Defect ID:</b>           | DEFECT000646724                                                                                                                                                                                                                                                                                                                                                                   |                          |                                     |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                              | <b>Probability:</b>      | Medium                              |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                | <b>Technology Group:</b> | BGP4 - IPv4 Border Gateway Protocol |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                        | <b>Technology:</b>       | Layer 3<br>Routing/Network<br>Layer |
| <b>Symptom:</b>             | Traffic drop due to increase in BGP convergence time                                                                                                                                                                                                                                                                                                                              |                          |                                     |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. The device has both BGP/OSPF configuration</li> <li>2. BGP has (iBGP/eBGP) neighborship with more than 50 neighbor of routers with multiple policies configured for RIB-Out processing</li> <li>3. OSPF is used as IGP for installing the BGP routes</li> <li>4. OSPF path changes by cost modifications or port down events</li> </ol> |                          |                                     |

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| <b>Defect ID:</b>           | DEFECT000650682                                                                                                                                                                                                                                               |                          |                                      |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                                        | <b>Probability:</b>      | Low                                  |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                            | <b>Technology Group:</b> | OSPF - IPv4 Open Shortest Path First |
| <b>Reported In Release:</b> | NI 05.6.00                                                                                                                                                                                                                                                    | <b>Technology:</b>       | Layer 3<br>Routing/Network<br>Layer  |
| <b>Symptom:</b>             | OSPF ECMP route for some of external destinations may not be installed into the routing table of non-translator NSSA ABR.                                                                                                                                     |                          |                                      |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>(1) Atleast two NSSA ABRs present in the OSPF network</li> <li>(2) About 100 or so external destinations are redistributed into NSSA area by two NSSA ASBRs with FA set to an address within the NSSA area.</li> </ol> |                          |                                      |

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

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

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| <b>Defect ID:</b>           | DEFECT000651950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                              |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Probability:</b>      | Low                          |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Technology Group:</b> | CLI - Command Line Interface |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology:</b>       | Management                   |
| <b>Symptom:</b>             | <p>Management Module may unexpectedly reload with the following stack trace:-<br/>Possible Stack Trace (function call return address list)</p> <p>54797064: (pc)<br/>20ac71d8: cu_show_int_lag_callback(lr)<br/>20ad8e04: cu_show_int_lag<br/>2044cc58: show_int_lag_all<br/>202e8754: call_action_func<br/>202e924c: parse_node<br/>202e8cc8: parse_node_recurse<br/>202e9514: parse_node<br/>202e8cc8: parse_node_recurse<br/>202e9514: parse_node<br/>2035cd28: parse_input<br/>2041c358: cli_aaa_accounting_callback<br/>207906c0: aaa_accounting_start<br/>2041bbac: cli_request_command_accounting<br/>202e913c: parse_node<br/>202e7790: parser<br/>2035cd04: parse_input<br/>20a94a74: ssh_event_handler<br/>20aa7ccc: ProcessChannelData<br/>20aa52e8: ShProcessMessage<br/>20aae688: ProcessClientInputData<br/>20aade20: ShFiniteStateMachine<br/>209b03cc: HandleProtocolAction<br/>209b01ac: HandleConnectionTask<br/>20a93644: ssh_connection_task<br/>20a93d90: ssh_socket_control<br/>20a96a2c: ssh_receive_data_ready<br/>20a96a70: ssh_tcp_receive_data_ready_callback<br/>20b9321c: itc_process_msgs_internal<br/>20b936c8: itc_process_msgs<br/>20a8edc0: ssh_in_task<br/>00005e18: sys_end_task</p> |                          |                              |
| <b>Condition:</b>           | "Show interface lag" is executed frequently from one or more SSH sessions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                              |

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| <b>Defect ID:</b>           | DEFECT000653000                                                                                                                                                                                            |                          |                                     |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                       | <b>Probability:</b>      | Medium                              |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                         | <b>Technology Group:</b> | IPv6 Addressing                     |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                 | <b>Technology:</b>       | Layer 3<br>Routing/Network<br>Layer |
| <b>Symptom:</b>             | IPV6 neighbor stuck in PROBE state                                                                                                                                                                         |                          |                                     |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. Connect the host with MLX and establish neighbors</li> <li>2. Remove connected host</li> <li>3. IPV6 entries are not removed and stuck in PROBE state</li> </ol> |                          |                                     |
| <b>Recovery:</b>            | clear ipv6 neighbors                                                                                                                                                                                       |                          |                                     |

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| <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 VPLS - Virtual<br>Private LAN Services |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                         | <b>Technology:</b>       | MPLS                                        |
| <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 |                          |                                             |

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| <b>Defect ID:</b>           | DEFECT000654961                                                             |                          |                                    |
| <b>Technical Severity:</b>  | High                                                                        | <b>Probability:</b>      | Medium                             |
| <b>Product:</b>             | Brocade NetIron OS                                                          | <b>Technology Group:</b> | Traffic Queueing and<br>Scheduling |
| <b>Reported In Release:</b> | NI 05.9.00                                                                  | <b>Technology:</b>       | Traffic Management                 |
| <b>Symptom:</b>             | Traffic loss may be observed with LAG                                       |                          |                                    |
| <b>Condition:</b>           | After boot up of any Gen1.1 line card in the presence of LAG configurations |                          |                                    |
| <b>Recovery:</b>            | Undeploy and deploy of LAG                                                  |                          |                                    |

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| <b>Defect ID:</b>           | DEFECT000655172                                                                                  |                          |                     |
| <b>Technical Severity:</b>  | Medium                                                                                           | <b>Probability:</b>      | Medium              |
| <b>Product:</b>             | Brocade NetIron OS                                                                               | <b>Technology Group:</b> | Hardware Monitoring |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                       | <b>Technology:</b>       | Monitoring          |
| <b>Symptom:</b>             | The 'show chassis' may display incorrect information for available power and power status fields |                          |                     |
| <b>Condition:</b>           | Power-off power supply manually<br>(OR)<br>Remove and re-insert the power cord.                  |                          |                     |

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| <b>Defect ID:</b>           | DEFECT000656069                                                                                                                            |                          |                                                       |
| <b>Technical Severity:</b>  | Medium                                                                                                                                     | <b>Probability:</b>      | Medium                                                |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                         | <b>Technology Group:</b> | VRRPv2 - Virtual Router Redundancy Protocol Version 2 |
| <b>Reported In Release:</b> | NI 05.6.00                                                                                                                                 | <b>Technology:</b>       | Layer 3 Routing/Network Layer                         |
| <b>Symptom:</b>             | Traffic loss may be observed with VRRP                                                                                                     |                          |                                                       |
| <b>Condition:</b>           | VRRP has to be configured on virtual interface and physical port is part of Un tagged VLAN<br>This is applicable for CES/CER devices only. |                          |                                                       |

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| <b>Defect ID:</b>           | DEFECT000656359                                                                                                                                                                                                          |                          |                              |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                   | <b>Probability:</b>      | Low                          |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                       | <b>Technology Group:</b> | CLI - Command Line Interface |
| <b>Reported In Release:</b> | NI 06.1.00                                                                                                                                                                                                               | <b>Technology:</b>       | Management                   |
| <b>Symptom:</b>             | Following error message may be observed on LP Console<br>kbp_duplicate_entry_IPVPN[0] idx : 0x00218021 tbl_id : 32 vpn_id = 4097, pfx : a.b.c.d/32                                                                       |                          |                              |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. Configure CAM in amod mode</li> <li>2. Configure a loopback interface</li> <li>3. Configure a VRF in VE interface</li> <li>4. Remove and re-add VRF in VE interface</li> </ol> |                          |                              |

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| <b>Defect ID:</b>           | DEFECT000656781                                                                                    |                          |                                           |
| <b>Technical Severity:</b>  | Medium                                                                                             | <b>Probability:</b>      | Medium                                    |
| <b>Product:</b>             | Brocade NetIron OS                                                                                 | <b>Technology Group:</b> | SNMP - Simple Network Management Protocol |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                         | <b>Technology:</b>       | Management                                |
| <b>Symptom:</b>             | SNMP may display a maximum number 4294967295 when polled for this object fdryVplsEndPoint2InnerTag |                          |                                           |
| <b>Condition:</b>           | VPLS endpoints are configured with no inner tag                                                    |                          |                                           |

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| <b>Defect ID:</b>           | DEFECT000656819                                                                                                                                                                                                                                                 |                          |                              |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                                          | <b>Probability:</b>      | Medium                       |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                              | <b>Technology Group:</b> | CLI - Command Line Interface |
| <b>Reported In Release:</b> | NI 06.2.00                                                                                                                                                                                                                                                      | <b>Technology:</b>       | Management                   |
| <b>Symptom:</b>             | <p>The 'show optic' command may display optic data as N/A even though the port is up like below:-</p> <pre>MLX2#sh optic 1 Port Temperature Tx Power Rx Power Tx Bias Current +-----+-----+-----+-----+-----+ 1/1 N/A N/A N/A N/A 1/2 N/A N/A N/A N/A</pre>     |                          |                              |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>Line card module is 20x10G.</li> <li>Dual mode optic is connected and speed is configured as 1G.</li> <li>Line card is reloaded with 1G speed configuration.</li> </ol>                                                  |                          |                              |
| <b>Recovery:</b>            | <p>The only recovery to correct the display issue is to reset line card by following below steps:-</p> <ol style="list-style-type: none"> <li>Remove 1G configuration and reload line card module.</li> <li>After boot up reapply the configuration.</li> </ol> |                          |                              |

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| <b>Defect ID:</b>           | DEFECT000657495                                                               |                          |                                     |
| <b>Technical Severity:</b>  | Medium                                                                        | <b>Probability:</b>      | Medium                              |
| <b>Product:</b>             | Brocade NetIron OS                                                            | <b>Technology Group:</b> | BGP4 - IPv4 Border Gateway Protocol |
| <b>Reported In Release:</b> | NI 05.8.00                                                                    | <b>Technology:</b>       | Layer 3 Routing/Network Layer       |
| <b>Symptom:</b>             | SNMP polling may display incorrect information for BGP peer's session UP time |                          |                                     |
| <b>Condition:</b>           | Polling this Object "bgpPeerFsmEstablishedTime" through SNMP                  |                          |                                     |

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| <b>Defect ID:</b>           | DEFECT000657519                                                                                                                                                                       |                          |                               |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                  | <b>Probability:</b>      | Low                           |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                    | <b>Technology Group:</b> | IPv6 Addressing               |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                            | <b>Technology:</b>       | Layer 3 Routing/Network Layer |
| <b>Symptom:</b>             | <p>Following IPV6 CAM Update violations may be observed with high CPU on Line Card module:-</p> <pre>Nov 8 16:37:06:A:CAM update violation: slot 3 XPP 2 0x000abcdef 0x00000000</pre> |                          |                               |
| <b>Condition:</b>           | Very rarely observed during frequent modifications of IPV6 routes                                                                                                                     |                          |                               |



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| <b>Defect ID:</b>           | DEFECT000657929                                                                                                                                                                                                                        |                          |                                        |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                 | <b>Probability:</b>      | Medium                                 |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                     | <b>Technology Group:</b> | OSPFv3 - IPv6 Open Shortest Path First |
| <b>Reported In Release:</b> | NI 06.2.00                                                                                                                                                                                                                             | <b>Technology:</b>       | Layer 3<br>Routing/Network<br>Layer    |
| <b>Symptom:</b>             | OSPFv3 Interface number may not be displayed correctly in "show log" output like below:-<br>Nov 30 05:22:15:N:OSPFv3: Interface state changed, rid a.b.c.d, intf eth x/y, state down, where x/y is not correct physical port/interface |                          |                                        |
| <b>Condition:</b>           | Enable/Disable OSPFv3 interface followed by the execution of "show ipv6 ospf neighbors"                                                                                                                                                |                          |                                        |

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| <b>Defect ID:</b>           | DEFECT000658203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |                               |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Probability:</b>      | Low                           |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Technology Group:</b> | Configuration<br>Fundamentals |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Technology:</b>       | Management                    |
| <b>Symptom:</b>             | Management Module may reload unexpectedly with the following stack trace:-<br>Exception Type 1100 (DTLB Load), telnet_0<br>0008f030: msr<br>00000000: dar<br>00000000: dsisr<br>202ed8dc: next_token(pc)<br>202f0af8: parse_node(lr)<br>202f0af8: parse_node<br>202f04f0: parse_node_recurse<br>202f0d3c: parse_node<br>202f04f0: parse_node_recurse<br>202f0d3c: parse_node<br>20364838: parse_input<br>2042a7e0: cli_aaa_accounting_callback<br>2079f290: aaa_accounting_start<br>2042a034: cli_request_command_accounting<br>202f0964: parse_node<br>202eefb8: parser<br>20364814: parse_input<br>20a90aac: handle_new_line_from_telnet_client<br>20a91408: telnet_application_control<br>20a94814: telnet_receive_packet<br>20a93240: telnet_socket_control<br>20a97ee0: telnet_receive_data_ready<br>20a97f24: telnet_tcp_receive_data_ready_callback<br>20ba3844: itc_process_msgs_internal |                          |                               |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. 'aaa accounting commands 0 default start-stop' is configured</li> <li>2. Debug destination is set to TELNET</li> <li>3. 'no telnet server' is issued on the same TELNET session</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                               |

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| <b>Defect ID:</b>           | DEFECT000658216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                              |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Probability:</b>      | Low                          |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology Group:</b> | CLI - Command Line Interface |
| <b>Reported In Release:</b> | NI 05.4.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b>       | Management                   |
| <b>Symptom:</b>             | Active Management Module may unexpectedly reload with the following stack trace:-<br>2018052c: print_prompt(pc)<br>2017d6e0: print_prompt(lr)<br>2031f718: prompt_and_reprint<br>20390ac4: internal_release_page_mode<br>20390c2c: release_page_mode<br>2038fa90: parse_input<br>2094b848: ssh_event_handler<br>2095a0e8: ProcessChannelData<br>20958304: ShProcessMessage<br>2095f664: ProcessClientInputData<br>2095eed8: ShFiniteStateMachine<br>208845a0: HandleProtocolAction<br>20884d84: HandleReceive<br>20884ca4: HandleWaitingForReceive<br>20884448: HandleConnectionTask<br>2094a5bc: ssh_connection_task<br>2094ad3c: ssh_socket_control<br>2094d4b4: ssh_receive_data_ready<br>2094d4f8: ssh_tcp_receive_data_ready_callback<br>20a24f54: itc_process_msgs_internal<br>20a2528c: itc_process_msgs<br>20946a04: ssh_in_task<br>00005e18: sys_end_task |                          |                              |
| <b>Condition:</b>           | Configure "ntp-interface ve command for VE interface id with higher value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                              |

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| <b>Defect ID:</b>           | DEFECT000658728                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                          |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b>      | Medium                                   |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> | MPLS VPLS - Virtual Private LAN Services |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | MPLS                                     |
| <b>Symptom:</b>             | <p>Line card may reload unexpectedly with the following stack trace:-<br/> Possible Stack Trace (function call return address list)<br/> 20f75174: traverse_all_ports_for_local_interface(pc)<br/> 20f75084: traverse_all_ports_for_local_interface(lr)<br/> 20df9abc: lp_vpls_dy_sync_tlv_port_config<br/> 20df7050: lp_vpls_dy_sync_tlv_process_dy_messages<br/> 20bb6718: process_dy_change_packet<br/> 20bfba30: ipc_multi_module_handler<br/> 20bfdcf0: ipc_process_messages<br/> 20bfe4b0: ipc_receive_packet<br/> 20034390: ge_process_ipc_data_msg<br/> 207eeac8: lp_ipc_task<br/> 00040158: sys_end_task</p> |                          |                                          |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. Port has to be configured as a tagged port in the VPLS VLAN</li> <li>2. Delete the port from the VPLS VLAN using this CLI "no tagged eth &lt;slot/port&gt;"</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                                          |

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| <b>Defect ID:</b>           | DEFECT000658954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                 |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Probability:</b>      | Medium                          |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology Group:</b> | Traffic Queueing and Scheduling |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Technology:</b>       | Traffic Management              |
| <b>Symptom:</b>             | <p>Protocols may flap when configured with very low timeout value less than or equal to 100 msec and Management Module may unexpectedly reload with the following stack trace:-<br/>Possible Stack Trace (function call return address list)</p> <pre> 0002f89c: get_memory_pool_info(pc) 00005024: xsyscall(lr) 000b6558: set_memory_histogram 0002e140: allocate_memory_pool 0002ed40: allocate_memory 0002b124: dev_allocate_memory 00005024: xsyscall 203105d0: os_malloc_zero 20b9eda0: itc_alloc_request_state 20b9f10c: itc_send_request_internal 20ba0f20: itc_send_request_and_wait_internal 20ba14e8: itc_send_request_and_wait 20f1a22c: bfd_scb_send_itc 205490a8: show_tm_non_empty 20037eec: show_tech_support 2035ed7c: timer_callback_wrapper 20ba069c: itc_process_msgs_internal 20ba0f44: itc_send_request_and_wait_internal 20ba14e8: itc_send_request_and_wait 20f1a22c: bfd_scb_send_itc 205490a8: show_tm_non_empty 20037eec: show_tech_support 2035ed7c: timer_callback_wrapper 20ba069c: itc_process_msgs_internal 20ba0f44: itc_send_request_and_wait_internal 20ba14e8: itc_send_request_and_wait 20f1a22c: bfd_scb_send_itc 205490a8: show_tm_non_empty 20037eec: show_tech_support 2035ed7c: timer_callback_wrapper 20ba069c: itc_process_msgs_internal 20ba0f44: itc_send_request_and_wait_internal 20ba14e8: itc_send_request_and_wait 20f1a22c: bfd_scb_send_itc 20549104: show_tm_non_empty </pre> |                          |                                 |

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|                    | <p>20037eec: show_tech_support<br/> 2035ed7c: timer_callback_wrapper<br/> 20ba069c: itc_process_msgs_internal<br/> 20ba0f44: itc_send_request_and_wait_internal<br/> 20ba14e8: itc_send_request_and_wait<br/> 20f1a22c: bfd_scb_send_itc<br/> 20549104: show_tm_non_empty<br/> 20037eec: show_tech_support<br/> 2035ed7c: timer_callback_wrapper<br/> 20ba069c: itc_process_msgs_internal<br/> 20ba0f44: itc_send_request_and_wait_internal<br/> 20ba14e8: itc_send_request_and_wait<br/> 20f1a22c: bfd_scb_send_itc<br/> 20549104: show_tm_non_empty<br/> 20037eec: show_tech_support<br/> 2035ed7c: timer_callback_wrapper<br/> 20ba069c: itc_process_msgs_internal<br/> 20ba0f44: itc_send_request_and_wait_internal<br/> 20ba14e8: itc_send_request_and_wait<br/> 20f1a22c: bfd_scb_send_itc<br/> 20549104: show_tm_non_empty<br/> 20037eec: show_tech_support<br/> 2035ed7c: timer_callback_wrapper<br/> 20ba069c: itc_process_msgs_internal<br/> 20ba0f44: itc_send_request_and_wait_internal<br/> 20ba14e8: itc_send_request_and_wait<br/> 20f1a22c: bfd_scb_send_itc<br/> 20549104: show_tm_non_empty<br/> 20037eec: show_tech_support<br/> Call stack too deep!</p> |
| <b>Condition:</b>  | <ol style="list-style-type: none"> <li>1. UDLD is configured with 100ms timeout by configuration command 'link-keepalive interval 1'</li> <li>2. when any one of the following command is executed 'show tech', 'show tm non-empty-queues' or 'show tm non-empty-queues detail'</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Workaround:</b> | Increase the Protocol timer expiry value accordingly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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| <b>Defect ID:</b>           | DEFECT000659530                                                                                                                                                                    |                          |          |
| <b>Technical Severity:</b>  | High                                                                                                                                                                               | <b>Probability:</b>      | Medium   |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                 | <b>Technology Group:</b> | OpenFlow |
| <b>Reported In Release:</b> | NI 06.2.00                                                                                                                                                                         | <b>Technology:</b>       | SDN      |
| <b>Symptom:</b>             | Layer2/3 OpenFlow could not be enabled on a interface from BVM tool and the following error message will be observed:-<br>Error: Port x/y is not untagged member in default VLAN 1 |                          |          |
| <b>Condition:</b>           | changing the port configuration from OpenFlow enable Layer 3 to Layer 2 or vice versa from BVM tool                                                                                |                          |          |

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| <b>Defect ID:</b>           | DEFECT000660494                                                                                                                                                            |                          |                              |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                     | <b>Probability:</b>      | Medium                       |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                         | <b>Technology Group:</b> | CLI - Command Line Interface |
| <b>Reported In Release:</b> | NI 06.2.00                                                                                                                                                                 | <b>Technology:</b>       | Management                   |
| <b>Symptom:</b>             | Route map applied through BVM on MLXe is shown as successful even though it fails on device as below:-<br>"ERROR: Please remove existing I2 routemap xyz first on port 3/1 |                          |                              |
| <b>Condition:</b>           | Applying another route-map to an interface through BVM without removing the existing route-map                                                                             |                          |                              |

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| <b>Defect ID:</b>           | DEFECT000660530                                                                  |                          |                              |
| <b>Technical Severity:</b>  | Medium                                                                           | <b>Probability:</b>      | Medium                       |
| <b>Product:</b>             | Brocade NetIron OS                                                               | <b>Technology Group:</b> | LAG - Link Aggregation Group |
| <b>Reported In Release:</b> | NI 06.2.00                                                                       | <b>Technology:</b>       | Layer 2 Switching            |
| <b>Symptom:</b>             | LAG creation through BVM shows successful even though it is failed in device     |                          |                              |
| <b>Condition:</b>           | LAG creation through BVM with participating ports do not have similar properties |                          |                              |

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| <b>Defect ID:</b>           | DEFECT000660604                                       |                          |                              |
| <b>Technical Severity:</b>  | High                                                  | <b>Probability:</b>      | Medium                       |
| <b>Product:</b>             | Brocade NetIron OS                                    | <b>Technology Group:</b> | LAG - Link Aggregation Group |
| <b>Reported In Release:</b> | NI 06.2.00                                            | <b>Technology:</b>       | Layer 2 Switching            |
| <b>Symptom:</b>             | Link may stay Up even though it is disabled in CLI    |                          |                              |
| <b>Condition:</b>           | "loop back system" configured on the disabled port    |                          |                              |
| <b>Workaround:</b>          | Loop back system should be configured on enabled port |                          |                              |

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| <b>Defect ID:</b>           | DEFECT000660088                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                        |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Probability:</b>      | Low                                    |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer    |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Technology:</b>       | BGP4 - IPv4 Border<br>Gateway Protocol |
| <b>Symptom:</b>             | <p>Line card may reload unexpectedly with the following stack trace:-</p> <p>Possible Stack Trace (function call return address list)</p> <p>21672168: memcpy(pc)<br/> 211fe30c: kbp_memcpy(lr)<br/> 20b5bf9c: kbp_npxxt_compare_data<br/> 20b5b504: kbp_npxxt_execute_req<br/> 20b5b300: kbp_npxxt_service_reqs<br/> 21547c34: kbp_xpt_service_requests<br/> 21546500: kbp_dm_12k_cbwlpn<br/> 2152ca78: device_compare<br/> 2152dcd0: kbp_instruction_search<br/> 21599064: NlmNsTrie__CheckAndFixRpt<br/> 215990f8: NlmNsTrie__FindIptUnderRpt<br/> 21599114: NlmNsTrie__FindIptUnderRpt<br/> 21599114: NlmNsTrie__FindIptUnderRpt<br/> 21599114: NlmNsTrie__FindIptUnderRpt<br/> 21599114: NlmNsTrie__FindIptUnderRpt<br/> 21599114: NlmNsTrie__FindIptUnderRpt<br/> 21599114: NlmNsTrie__FindIptUnderRpt<br/> 21599114: NlmNsTrie__FindIptUnderRpt<br/> 21599114: NlmNsTrie__FindIptUnderRpt<br/> 21599114: NlmNsTrie__FindIptUnderRpt<br/> 21599114: NlmNsTrie__FindIptUnderRpt<br/> 21599180: NlmNsTrie__FindRptEntries<br/> 21599190: NlmNsTrie__FindRptEntries<br/> 21599190: NlmNsTrie__FindRptEntries<br/> 21599190: NlmNsTrie__FindRptEntries<br/> 21599190: NlmNsTrie__FindRptEntries<br/> 21599190: NlmNsTrie__FindRptEntries<br/> 21599190: NlmNsTrie__FindRptEntries<br/> 21599190: NlmNsTrie__FindRptEntries<br/> 21599190: NlmNsTrie__FindRptEntries<br/> 21599190: NlmNsTrie__FindRptEntries<br/> 21599190: NlmNsTrie__FindRptEntries<br/> 21599190: NlmNsTrie__FindRptEntries<br/> 215992d4: NlmNsTrie__SearchAndRepairRpt<br/> 215a7988: kbp_ftm_search_and_repair_rpt</p> |                          |                                        |



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|                    | 215881bc: kbp_lpm_db_advanced_search_and_repair<br>215bab14: kbp_device_advanced_fix_errors<br>21534f38: kbp_device_12k_fix_parity_errors<br>2152a538: kbp_device_fix_errors<br>20b5561c: netroute_ifsr_fix_errors<br>20ac956c: nlcam_ifsr_netroute_scan_errors<br>20ac8b90: nlcam_ifsr_fifo_poll<br>200058c0: perform_callback<br>200062c8: timer_timeout<br>00040160: sys_end_entry<br>0005e4a0: suspend<br>0005cf78: dev_sleep<br>00005024: xsyscall<br>207f3af4: main<br>00040158: sys_end_task |
| <b>Condition:</b>  | Rarely observed during the execution of 'clear BGP neighbor' command when software is trying to fix a CAM error at the same time                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Workaround:</b> | To disable soft repair feature through CLI 'cam ifsr disable'                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Closed with code changes R06.2.00a

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 11/28/2017 in NetIron 06.2.00a.

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| <b>Defect ID:</b> DEFECT000646510                                               |                                                                        |
| <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> RAS - Reliability, Availability, and Serviceability |
| <b>Symptom:</b> Unable to configure "speed-duplex 100-full" on CES/CER 1G port. |                                                                        |
| <b>Condition:</b> On Optics E1MG-100BXD and E1MG-100BXU.                        |                                                                        |

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| <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>209666fb4: 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |

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| <b>Defect ID:</b> DEFECT000649996                                                            |                                                              |
| <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> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> VRRP-E session state changes unexpectedly.                                   |                                                              |
| <b>Condition:</b> Polling SNMP table: lldpRemTable (.1.0.8802.1.1.2.1.4.1).                  |                                                              |
| <b>Workaround:</b> Disable SNMP polling for the table: lldpRemTable (.1.0.8802.1.1.2.1.4.1). |                                                              |

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| <b>Defect ID:</b> DEFECT000651862                                                                                                                                                                                                                     |                                                        |
| <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 06.1.00                                                                                                                                                                                                                | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Traffic loss might be observed on MLX with Q-in-Q configuration.                                                                                                                                                                      |                                                        |
| <b>Condition:</b> 1. MRP should be configured on outer VLAN of Q-in-Q.<br>2. Physical loopback connection should be established between two interfaces where one interface belongs to outer VLAN and other interface belongs to inner VLAN of Q-in-Q. |                                                        |

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| <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".                                                                                                  |                                             |

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| <b>Defect ID:</b> DEFECT000657044                                                        |                                        |
| <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> Reduction in performance may be observed over 24x10G on MLXe16 Chassis.  |                                        |
| <b>Condition:</b> One of the Fabric link connected to 24x10G goes Down.                  |                                        |
| <b>Workaround:</b> Shutting down other 3 fabric links connected to the same SFM,FE pair. |                                        |

## Closed with code changes R06.2.00

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 09/22/2017 in NetIron 06.2.00.

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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> 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> 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. 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> 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> DEFECT000602530                                                                    |                                              |
| <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 06.1.00                                                               | <b>Technology:</b> Rate Limiting and Shaping |
| <b>Symptom:</b> ARP packets are not rate-limited based on ARP rate-limit policy on 20x10G line card. |                                              |
| <b>Condition:</b> Apply ARP rate limit policy globally after system reload.                          |                                              |
| <b>Workaround:</b> Disable/Enable the ingress physical interface.                                    |                                              |

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| <b>Defect ID:</b> DEFECT000607620                                                                                                              |                                       |
| <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> SSH - Secure Shell |
| <b>Symptom:</b> In rare condition, system may disconnect SSH sessions unexpectedly due to a malformed header. The root cause is not yet known. |                                       |
| <b>Condition:</b> In rare condition, system may disconnect SSH sessions unexpectedly due to a malformed header.                                |                                       |

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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> DEFECT000613781                                                    |                                                          |
| <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> OAM - Operations, Admin & Maintenance |
| <b>Symptom:</b> "show interface" may not have reason for port down                   |                                                          |
| <b>Condition:</b> Ports are brought down because of all back plane fabric links down |                                                          |

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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 <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> 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                          |                                                         |
| <b>Recovery:</b> Apply multicast boundary for the group on both incoming and outgoing PIM-DM interfaces                            |                                                         |

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| <b>Defect ID:</b> DEFECT000617890                                                                                                                                                          |                                                         |
| <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> Ospf3 Intra area route may not be calculated, if there are multiple Intra area prefix originated by same advertising router.                                               |                                                         |
| <b>Condition:</b> More than one Intra area prefix lsa originated by single advertising router & any other intra area prefix lsa with different advertising router's LSA hash becomes same. |                                                         |

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| <b>Defect ID:</b> DEFECT000619399                                                                                                                                                                                                                |                                                        |
| <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> Removing and adding "aggregate-address x.y.z.q summary-only" causes BGP not to select the aggregate route as BEST route and subsequently prevents route advertisement for the aggregate route                                    |                                                        |
| <b>Condition:</b> BGP global protocol distance for local route is configured as 255 and the aggregate route is marked as BEST in BGP and advertised to peers before the no form of command: "aggregate-address x.y.z.q summary-only" is executed |                                                        |
| <b>Workaround:</b> Change BGP global protocol distance for local routes to a value other than 255( other accepted values 1-254) and clear all the BGP neighbor sessions                                                                          |                                                        |

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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 |
| <p><b>Symptom:</b> Management module may unexpectedly reload with below stack trace:-</p> <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)<br/> 20a6b0bc: ShBuildDhKeyExchangeReply(lr)<br/> 20a6b0bc: ShBuildDhKeyExchangeReply<br/> 20a6e620: ProcessClientDhMessage<br/> 20a6d9ec: ShProcessMessage<br/> 20a76b20: ProcessClientInputData<br/> 20a76414: ShFiniteStateMachine<br/> 20979d98: HandleProtocolAction<br/> 20979b78: HandleConnectionTask<br/> 20a5c364: ssh_connection_task<br/> 20a5cab0: ssh_socket_control<br/> 20a5f718: ssh_receive_data_ready<br/> 20a5f75c: ssh_tcp_receive_data_ready_callback<br/> 20b55668: itc_process_msgs_internal<br/> 20b55b14: itc_process_msgs<br/> 20a57d24: ssh_in_task<br/> 00005e18: sys_end_task</p> |                                       |
| <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.</p> <p>Note: - This defect is applicable for NetIron 05.8.00 and later releases up to and including 06.1.00.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       |
| <p><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> <p>To configure an ACL to permit allowed hosts, enter commands such as the following:</p> <pre>device(config)# access-list 12 permit host x.x.x.x device(config)# ssh access-group 12 device(config)# write memory</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |

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| <b>Defect ID:</b> DEFECT000622031                                                                                        |                                                             |
| <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> ICMP - Internet Control Message Protocol |
| <p><b>Symptom:</b> Traffic from specific source addresses to affected destination addresses may getting black-holed.</p> |                                                             |
| <p><b>Condition:</b> When lpm walk monitoring is triggered due to error in hardware</p>                                  |                                                             |





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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 neighborhood 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> 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> 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 |
| <b>Symptom:</b> VE Interface MAC is not used as source MAC for packets routed by VPLS-VE interface.                                                  |                                                             |
| <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. |                                                             |

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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> DEFECT000624450                                                         |                                     |
| <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> Errors may be incorrectly returned indicating that the command has failed |                                     |
| <b>Condition:</b> When assigning noncontiguous ports to a GTP profile                     |                                     |

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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> <ol style="list-style-type: none"> <li>1. ISIS is used as IGP</li> <li>2. ISIS MD5 authentication enabled at global level</li> <li>3. MPLS "handle-isis-neighbor-down" is enabled</li> </ol>                                                          |                                             |
| <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> 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> DEFECT000624579                                                                                                                                     |                                             |
| <b>Technical Severity:</b> High                                                                                                                                       | <b>Probability:</b> Low                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                    | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 06.1.00                                                                                                                                | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> Some LSPs go down on transit DUTs shortly after a reservable BW reduction on the protected path and data traffic loss is observed.                    |                                             |
| <b>Condition:</b> The issue gets introduced on reducing the interface reservable bandwidth such that some of the LSPs get preempted and/or failover to their backups. |                                             |
| <b>Recovery:</b> Re-signal affected LSPs from head-end router ("clear mpls lsp ...")                                                                                  |                                             |

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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: -<br><br>Possible Stack Trace (function call return address list)<br>211ea688: pim_process_candidate_rp_adv_msg(pc)<br>211ea500: pim_process_candidate_rp_adv_msg(lr)<br>211bb44c: receive_pimv2_packet<br>211ba630: receive_pimv2_packet_callback<br>20b8fe8c: itc_process_msgs_internal<br>20b90338: itc_process_msgs<br>21170a60: mcast_task<br>00005e18: sys_end_task |                                           |
| <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> DEFECT000625732                                                                                                                                                                                                                             |                              |
| <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 06.0.00                                                                                                                                                                                                                        | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> Traffic is not sent to controller even though packets hit the openflow rule and gets mirrored.                                                                                                                                                |                              |
| <b>Condition:</b> Enable openflow on the traffic ingress interface.<br>Push an openflow rule with action mirror port and send to controller.<br>Witness the packet count for send to controller in output of "show openflow flow" is not getting incremented. |                              |

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| <b>Defect ID:</b> DEFECT000626014                                                                                                                               |                                                 |
| <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 05.6.00                                                                                                                          | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Multicast and Broadcast data traffic may be dropped for up to 4-5sec when CCP goes down by reloading or MM switchover on a MCT peer.            |                                                 |
| <b>Condition:</b> In a MCT network setup, CCP down event due to<br>- MCT peer reload or<br>- MCT peer management module switchover<br>will cause this condition |                                                 |

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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> 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> DEFECT000627353                                                                                                                                                                           |                              |
| <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 512 openflow rules or more are configured having the same output port as logical MPLS port (LSP), the LP software is getting reloaded unexpectedly, if the LSP goes down and comes up. |                              |
| <b>Condition:</b> Enable openflow on LSP.<br>Configure 512 flows or more with output as openflow logical port (LSP)<br>Make the LSP go down by disabling the mpls-interface.                                |                              |

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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> 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 :-<br><br>'free_config_buffer: bad buffer address ' |                                                 |
| <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> 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> 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> DEFECT000629321                                                                                                                                                                                                                                                                                                                 |                                                               |
| <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> DHCP - Dynamic Host Configuration Protocol |
| <b>Symptom:</b> When "clear dhcp-binding" command is executed on the CLI to clear the dhcp-binding entries, the error message "error - dhcp_snooping_update_binding_to_standby() - unable to send ipc, err=7" may be seen on the CLI session where the command was executed.                                                                      |                                                               |
| <b>Condition:</b> When the DHCP binding table has thousands of binding entries and when an attempt is made to delete these entries through the CLI "clear dhcp-binding" command, the error message "error - dhcp_snooping_update_binding_to_standby() - unable to send ipc, err=7" may be seen on the CLI session where the command was executed. |                                                               |

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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> DEFECT000629528                                                                                                                   |                              |
| <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 06.1.00                                                                                                              | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> Traffic loss when traffic going on Openflow Logical port group which contain LSP tunnels, configured on both physical port and lag. |                              |
| <b>Condition:</b> Egress port is Openflow Logical Port Group contains LSP tunnels going on Physical ports and LAG.                                  |                              |
| <b>Workaround:</b> Make LSP tunnels either going to Physical ports or LAG ports.                                                                    |                              |

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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 </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |

rpf-mode loose

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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> 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> DEFECT000632327                                                                                                                                                           |                                                             |
| <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 06.1.00                                                                                                                                                      | <b>Technology:</b> BFD - BiDirectional Forwarding Detection |
| <b>Symptom:</b> When session setup delay is set to 0 seconds using the command "bfd sh-session-setup-delay 0" BFD sessions do not come UP, sessions are always in DOWN state.               |                                                             |
| <b>Condition:</b> Session setup delay is set to 0 seconds, BFD sessions are in DOWN state if the sessions are not already UP.<br>It does not impact sessions which are already in UP state. |                                                             |

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| <b>Defect ID:</b> DEFECT000632386                                                                                                                                                         |                                                        |
| <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> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> BGP routes don't get installed with lower router-id when bgp router-id compare is enabled, it installed the route from higher router-id. All other bgp metrics look same. |                                                        |
| <b>Condition:</b> ECMP paths with same attributes from different peers                                                                                                                    |                                                        |
| <b>Recovery:</b> clearing the neighbor may resolve the issue                                                                                                                              |                                                        |

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| <b>Defect ID:</b> DEFECT000632625                                                                                                                                                                                                                                                                                                                                                                                       |                                                         |
| <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> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> A route exists in OSPF route table but the same route is not seen in RTM.                                                                                                                                                                                                                                                                                                                               |                                                         |
| <p><b>Condition:</b> 1) An OSPF destination is reachable through 2 INTRA AREA paths on which, one of them is DIRECT and the other is reachable through a next-hop.<br/> (2) By executing the following sequence of commands through script<br/> Example:<br/> conf t<br/> int e 1/8<br/> disable<br/> exit<br/> no int ve 124</p> <p>Where, the interface e 1/8 is part of VE 124 and OSPF is configured on VE 124.</p> |                                                         |
| <p><b>Workaround:</b> Executing the following sequence of commands manually will avoid this issue</p> <p>Example:<br/> conf t<br/> int e 1/8<br/> disable<br/> exit<br/> no int ve 124</p>                                                                                                                                                                                                                              |                                                         |

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| <b>Defect ID:</b> DEFECT000633060                                                                                                                                                                                         |                                                         |
| <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> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> External LSAs for redistributed connected routes in a user-defined VRF OSPF instance, are originated with DN bit set.<br>Hence routes are not calculated in peer, which is also under a user defined VRF. |                                                         |
| <p><b>Condition:</b> Conditions to hit this issue are:<br/> 1. Both neighbor routers have OSPF instance under a user-defined VRF.<br/> 2. Connected routes are redistributed in OSPF in one of the routers.</p>           |                                                         |
| <b>Workaround:</b> Configure vrf-lite on one of the routers.                                                                                                                                                              |                                                         |

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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 |                                                    |

**Condition:** 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> DEFECT000634069                                                                                                                                                           |                                                 |
| <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> CLI - Command Line Interface |
| <b>Symptom:</b> Port of 20X10G Line card Module may not come up                                                                                                                             |                                                 |
| <b>Condition:</b> It is very rarely observed when a new connection is made on a port of 20X10G                                                                                              |                                                 |
| <b>Recovery:</b> Any one of the following methods can help in recovery:-<br>1. Removal and Re-insert of SFPP<br>2. Swap SFPP by SFP and re-swap SFP by SFPP.<br>3. Reload Line card Module. |                                                 |

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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 customer router doesn't learn the route advertised by NetIron routers.                                                                                           |                                                            |
| <b>Condition:</b> (1) NetIron router has 2 Customer routers as its neighbors and RIP is configured on all the routers.<br>(2) One of the Customer 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 |                                                |
| Note : This is applicable for CES/CER device only.                                                                                                                        |                                                |

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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 :-<br><br>Possible Stack Trace (function call return address list)<br><br>00000000: .zero(pc)<br>2025c888: m_avll_insert_or_find(lr)<br>205fd7a0: time_tree_insert_new_node_with_loc_index_no_delete<br>205fdf08: trace_util_add_entry_avl<br>205b3224: IPTRACE_AVL<br>205b30b8: IPTRACE_AVL_USING_RT_ENTRY<br>204dd9b4: lp_cam_del_ip_all_cam_by_type<br>204fb9b4: lp_cam_del_ip_all_cam<br>20678cf0: fpip_delete_entry_from_cam<br>20674a54: fpip_free_cache<br>20674cec: fpip_delete_route<br>205a9664: ip_delete_interface_addresses_from_cache<br>205aeb64: ip_process_port_state_change<br>205b5c38: fpip_ipc_port_data<br>203b92b0: ipc_multi_module_handler<br>200b1c24: lp_assist_ipc_request_send<br>203bbabc: ipc_process_messages<br>203bc2c8: ipc_receive_packet<br>203b68e8: ge_process_ipc_data_msg<br>203b6cac: ge_process_ipc_msg<br>200bc284: metro_sys_loop<br>200b18e4: main<br>00040158: sys_end_task |                                                               |
| <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> 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> DEFECT000635566                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |
| <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> On active MP, SW reload may be seen with the following stack:<br>Possible Stack Trace (function call return address list)<br>223aaf40: openflow_add_nht_entry(pc)<br>223aaf3c: openflow_add_nht_entry(lr)<br>223ab7b4: openflow_update_nht_entry<br>2235c000: of_add_flow_internal<br>2235c72c: of_add_flow<br>2235b558: of_flow_mod_process<br>223e8314: openflow_flow_process_engine<br>223e73b0: openflow_flow_process_start<br>20b9f060: itc_process_msgs_internal |                              |
| <b>Condition:</b> Open flow configuration: Incoming Traffic with 1K Layer 2 and layer 3 flows pointing to 1K LSP.                                                                                                                                                                                                                                                                                                                                                                      |                              |

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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. |                                                |

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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:-<br><br>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> DEFECT000637097                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |
| <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 06.1.00                                                                                                                                                                                                                                                                                                                                                                                       | <b>Technology:</b> BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b> BGP session in VRF does not come up if the BGP session is trying to establish in non-default vrf instance which is on loop-back interface and the next-hop is configured on default vrf to reach the bgp peer.                                                                                                                                                                                               |                                                        |
| <b>Condition:</b> BGP session on vrf instance is not coming up under the following conditions.<br>1) The BGP interface and the next-hop interfaces are not in the same vrf-forwarding instances.<br>2) Also when we configured inter vrf leaking for importing the routes.                                                                                                                                                   |                                                        |
| <b>Workaround:</b> Follow all steps below to workaround the issue<br><br>1) Configure a secondary path to reach the BGP peer via different next-hop in the DUT.<br>2) The next-hop should be configured on the same vrf instance where the BGP session is originated in the DUT.<br>3) Also have the configuration to import the routes from one vrf to other vrf to achieve the inter-vrf routing configuration in the DUT. |                                                        |

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| <b>Defect ID:</b> DEFECT000637181                                                                                                                                                             |                                        |
| <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> NetIron MLX 8x10G modules may not boot up with the following message seen in the Syslog – "Module down in slot n, reason CARD_DOWN_REASON_NP_TM_LINK_ERROR. Error Code (26)." |                                        |
| <b>Condition:</b> Seen after upgrade to either 5.6.00j or 5.6.00k,                                                                                                                            |                                        |
| <b>Recovery:</b> Upgrade to 5.6.00m                                                                                                                                                           |                                        |

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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> DEFECT000638335                                 |                                                         |
| <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> routes for VEoVPLS in a VRF may not be resolved   |                                                         |
| <b>Condition:</b> routes for VEoVPLS in a VRF may not be resolved |                                                         |

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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 |                                              |

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"</pre> <p>default snmp-server community configuration and snmp-server community keyword is missing before IPV4 ACL "SNMP-ACCESS".</p> |                                                              |
| <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 |
| <b>Symptom:</b> IPv6 ACL doesn't work on Layer2 traffic with this configuration "if-acl-inbound include-switched-traffic" enabled on physical interface.                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |
| <b>Condition:</b> When IPv4 ACL with different set of ports is bounded to the same VE interface Where IPV6 ACL is also applied.<br><br>For instance:-<br><br>vlan 1000<br>untagged ethe 2/1 to 2/4<br>router-interface ve 10<br><br>interface ve 10<br>ip access-group ve-traffic<br>ip access-group 100 in ethernet 2/3 to 2/4 >> IPV4 ACL is not applied to 2/1<br>ipv6 enable<br>ipv6 traffic-filter ipv6_acl in<br>>> IPV6 ACL should be applied to all ports from 2/1 to 2/4.<br><br>interface ethernet 2/1<br>enable<br>if-acl-inbound include-switched-traffic ipv6 |                                                |

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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 |
| <b>Symptom:</b> Connected prefixes redistributed by a PE are not getting calculated on other PEs in the network.                                                                                                                                                             |                                                           |
| <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. |                                                           |
| <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> DEFECT000639485                                                                                                                  |                                                    |
| <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 05.4.00                                                                                                             | <b>Technology:</b> Traffic Queueing and Scheduling |
| <b>Symptom:</b> The EnQue/DeQue packet counts from "show tm-voq-stat src_port x/y cpu-queue" command does not match statistics of destination port |                                                    |

**Condition:** For all CPU destined traffic

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| <b>Defect ID:</b> DEFECT000640363                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <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> Management Module unexpectedly reloads with the below stack trace and goes into a rolling reboot state :-<br><br>Possible Stack Trace (function call return address list)<br>20f736f4: pack_pim_nbr_node(pc)<br>20f736f0: pack_pim_nbr_node(lr)<br>20f73bb4: process_pim_nbr_download_request<br>202cc074: process_dy_download_request<br>202b5e98: ipc_process_messages<br>202b6b4c: ipc_receive_packet<br>20d6e9f0: sw_receive_packet<br>20d6f4e8: mp_rx_main<br>00005e18: sys_end_task |                                                         |
| <b>Condition:</b> It is very rarely observed during replacement of defective Line card Module                                                                                                                                                                                                                                                                                                                                                                                                             |                                                         |
| <b>Recovery:</b> 1.Power-off the chassis<br>2. Remove one Management Module<br>3.Power-on the chassis and bring the first Management Module Up<br>4.Insert the other Management Module                                                                                                                                                                                                                                                                                                                    |                                                         |

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| <b>Defect ID:</b> DEFECT000640634                                                           |                                                 |
| <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 06.0.00                                                      | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> MCT cluster node fails to forward the packet towards CCEP ports             |                                                 |
| <b>Condition:</b> 1. MCT cluster peer is down<br>2. Reload the Stand alone MCT cluster node |                                                 |
| <b>Recovery:</b> Reconfigure the cluster by "no deploy/deploy".                             |                                                 |

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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> DEFECT000642511                                                                     |                              |
| <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> Traffic drop is seen                                                                  |                              |
| <b>Condition:</b> Incoming Traffic with untagged vlan normal action flow matches the VEoVPLS traffic. |                              |

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| <b>Defect ID:</b> DEFECT000642897                                                                                                                                                                                                                                                                                                                       |                                                                          |
| <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> VRRPv3 - Virtual Router Redundancy Protocol Version 3 |
| <b>Symptom:</b> Ping failure is observed for a IPv6 VRRP virtual IP from Host                                                                                                                                                                                                                                                                           |                                                                          |
| <b>Condition:</b> 1. VRRP master failover by disabling the VE interface<br>2. Bring back the VRRP node as master again by enabling the VE interface<br><br>Example config:<br>interface ve xx<br>ip address a.b.c.d/24<br>ipv6 address e::f/64<br>ipv6 enable<br>ipv6 vrrp vrid yy<br>owner<br>ipv6-address zz::a<br>ipv6-address e::f<br>activate<br>! |                                                                          |
| <b>Workaround:</b> Ping from IPV6 VRRP master to Host to make reverse ping work                                                                                                                                                                                                                                                                         |                                                                          |
| <b>Recovery:</b> Ping from IPV6 VRRP master to Host to make reverse ping work                                                                                                                                                                                                                                                                           |                                                                          |



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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> <p>214abf9c: mpls_find_ldp_pkt_filter_data(pc)<br/> 214abf8c: mpls_find_ldp_pkt_filter_data(lr)<br/> 214ac294: mpls_trace_match_pkt<br/> 214af97c: mpls_trace_match_filter_args<br/> 213a5314: ntl_filter<br/> 219fe3c0: rcsn_process_msg<br/> 219fc798: rcsn_parse_received_buffer<br/> 21a0b61c: rcsn_rcv_session_sck_msg<br/> 21a0a70c: rcsn_rcv_sck_msg<br/> 21a2c650: rcsn_fwd_ips_to_sub_cmpnt<br/> 21a2bfa0: rcsn_fwd_ip_sock_on_sock_type<br/> 21a2bc84: rcs_receive_proc<br/> 212f6020: nbb_dispatch_process<br/> 212f5504: nbb_schedule_one<br/> 212f5938: nbb_scheduler<br/> 213036d4: nbb_spin_start<br/> 212f8ee4: nbs_spin_start<br/> 214fc6c4: ldp_tcp_receive_callback<br/> 214cf9e4: mpls_tcp_receive_data_ready_itc_callback<br/> 20a4b768: itc_process_msgs_internal<br/> 20a4baa0: itc_process_msgs<br/> 215328d0: mpls_task<br/> 00005e18: sys_end_task</p> |                                                             |
| <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 "sho mpls config   in xxx".</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                             |

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| <b>Defect ID:</b> DEFECT000643135                                                                                                 |                                                 |
| <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> CLI - Command Line Interface |
| <p><b>Symptom:</b> fan-threshold command does not display option for Gen 2 Line card Modules thought it accepts when executed</p> |                                                 |
| <p><b>Condition:</b> When fan-threshold command is queried for further option</p>                                                 |                                                 |

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| <b>Defect ID:</b> DEFECT000643159                                             |                                                                            |
| <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> IS-IS - IPv4 Intermediate System to Intermediate System |
| <b>Symptom:</b> User may observe that MPLS LSPs stay in down state            |                                                                            |
| <b>Condition:</b> This issue may be observed when there is a switchover of MP |                                                                            |

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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 out going 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> DEFECT000644003                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |
| <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> IP Addressing                       |
| <b>Symptom:</b> Ping fails on a newly configured VRRP node                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |
| <p><b>Condition:</b> It is very rarely observed when a new VRRP instance is configured through a script on a telnet console</p> <p>Note: This is specific to CES/CER only.</p> <p>Example config:</p> <pre> conf t vlan abc name XXX tagged ethe 2/3 to 2/4 router-interface ve abc interface ve abc port-name YYY ip address a.b.c.d/24 ip vrrp auth-type simple-text-auth xyz ip vrrp vrid abc owner ip-address a.b.c.d activate exit exit </pre> |                                                        |
| <p><b>Recovery:</b> Disable and re-enable the VE</p> <pre> conf t int ve abc disable enable end </pre>                                                                                                                                                                                                                                                                                                                                              |                                                        |

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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”.                                                                                                                                 |                                            |
| <p><b>Condition:</b> 1. On CES/CER with Openflow disabled<br/>2. Adding untagged port on VLAN within ESI</p> <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> DEFECT000644369                                                  |                                                              |
| <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> SNMP OID: "ifCounterDiscontinuityTime" does not have correct value |                                                              |
| <b>Condition:</b> SNMP polling for the OID: "ifCounterDiscontinuityTime"           |                                                              |

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| <b>Defect ID:</b> DEFECT000644774                                                            |                                                         |
| <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> MM resets; leading to MM switchover or node reset                            |                                                         |
| <b>Condition:</b> MLX is connected to routers which advertise the SP TLV capability (in LDP) |                                                         |
| <b>Workaround:</b> Configure ASR to prevent attempting to signal multi segment PWE3          |                                                         |

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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:-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         |
| <pre> Possible Stack Trace (function call return address list) 206f3f1c: lp_cam_add_ip_multicast_session_entry(pc) 206f3ee0: lp_cam_add_ip_multicast_session_entry(lr) 206ebe6c: mcast_filter_install_cam_entry 206eb7f4: mcast_filter_entry_add 206eb1e8: mcastlp_process_filter 206fa250: pim_port_state_notify 206ff160: process_one_vif_update 206ff494: process_vif_dy_messages_internal 20700c8c: process_vif_dy_messages 203835b4: process_dy_change_packet 203b9320: ipc_multi_module_handler 203bbb5c: ipc_process_messages 203bc338: ipc_receive_packet 203b6958: ge_process_ipc_data_msg 203b6d1c: ge_process_ipc_msg 200bc2f0: metro_sys_loop 200b1950: main 00040158: sys_end_task </pre> |                                                         |
| <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> DEFECT000645207                                                                                                                                                                                                                                                                                                                                               |                                             |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                                                                                             | <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> On a scaled scenario where the LSPs are adaptive and protected, when an interface which has a lot of LSPs, around a 1000 at least, goes down all these LSPs will attempt to establish MBB LSP at the same time which causes a spike in CPU usage. In some cases some of the LSPs might even go down due to lack of CPU availability to process control packets. |                                             |
| <b>Condition:</b> This happens only in scaled scenarios where the LSPs are adaptive and protected, and a few thousand such LSPs are riding a protected interface, and the protected interface goes down,                                                                                                                                                                        |                                             |

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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 |
| <b>Symptom:</b> Management module may reload unexpectedly with the following stack trace:-<br><br>Possible Stack Trace (function call return address list)<br>216063fc: mpls_get_tunnel_mask(pc)<br>216063ac: mpls_get_tunnel_mask(lr)<br>20ae30f4: mpls_vll_stat_get_inbound_stats_from_lp<br>20ae3878: get_mpls_vll_stat_from_lp<br>20ae3e50: cu_get_mpls_vll_specific_stat<br>208947fc: ag_get_l2vpn_stats_if_needed_internal<br>20894e44: fdryVllEndPointEntry_next<br>20956744: SNMP_Process_Next_PDU<br>20959c38: process_packet_two<br>2095a0f0: process_packet_one<br>2095a43c: Process_Rcvd_SNMP_Packet_Async<br>209580d8: Process_Received_SNMP_Packet<br>20984544: snmp_receive_message<br>20986f28: snmp_udp_rcv_callback_common<br>20987034: snmp_udp_rcv_callback<br>20b9321c: itc_process_msgs_internal<br>20b936c8: itc_process_msgs<br>20983bbc: snmp_task<br>00005e18: sys_end_task |                                                              |
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |
| <b>Workaround:</b> Disable SNMP polling for the table: “fdryVllEndPointTable” by applying below configuration command.<br>Router(config)#snmp-server disable mib vll-ep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |

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| <b>Defect ID:</b> DEFECT000645459                                                                                                                                                                                                                                                     |                                                             |
| <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 06.1.00                                                                                                                                                                                                                                                | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> "PORT_STATUS_DEFECT" error log messages are observed continuously in the CFM history-log.                                                                                                                                                                             |                                                             |
| <b>Condition:</b> 1) CFM should be enabled and Maintenance Association should be configured on VPLS VLAN.<br>2) MEP should be configured with tlv-type as Port Status TLV on a VPLS VLAN port as below.<br>mep <id> up tlv-type port-status-tlv vlan <vlan-id> port ethe <slot/port>. |                                                             |
| <b>Workaround:</b> Configure the MEP without tlv-type as Port Status TLV type as below.<br>mep <id> up vlan <vlan-id> port ethe <slot/port>.                                                                                                                                          |                                                             |

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| <b>Defect ID:</b> DEFECT000645932                                                                                                                                                                                                                                                                    |                              |
| <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> Applicable to 40G Line card. Traffic flow is not forwarded under certain open flow configuration                                                                                                                                                                                     |                              |
| <b>Condition:</b> a. Configure Open flow ver 1.3<br>b. Enable L2 and L3 hybrid mode on few interfaces<br>c. Enable native switching using the command "openflow mpls-us-enable". Push MPLS transit flow and L2 flow<br>d. Now Reload the Line card OR reload the system.<br>e. Push the flows again. |                              |

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| <b>Defect ID:</b> DEFECT000646997                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |
| <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 05.7.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> Existing as-path access-list is modified when another access-list with same pattern is added                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |
| <b>Condition:</b> Existing as-path access-list is modified when another access-list with same pattern and different sequence number is added like below:-<br><br>Existing config:<br>ip as-path access-list filter-from-as58453 seq 1 permit _xy\$<br>ip as-path access-list filter-from-as58453 seq 10 deny _(xy[0-9])_<br>ip as-path access-list filter-from-as58453 seq 1000 permit ^.*\$<br><br>New : "ip as-path access-list filter-from-as58453 seq 2 deny ^.*\$"<br><br>The new rule modifies the existing rule with seq num 1000, as they have similar pattern string and hence, changes the action from permit to deny like below:-<br><br>ip as-path access-list filter-from-as58453 seq 1000 deny ^.*\$ |                                                |

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| <b>Defect ID:</b> DEFECT000647411                                                                                                                    |                                                 |
| <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> Line card Module may not go to OS Mode                                                                                               |                                                 |
| <b>Condition:</b> When a keyword other than primary, secondary or its short form is followed by boot os flash and executed in Line card Monitor Mode |                                                 |

## Closed with code changes R06.1.00a

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 03/20/2017 in R06.1.00a.

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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:-<br><br>EXCEPTION 1200, Data TLB error<br><br>Task : ssh_0<br><br>Possible Stack Trace (function call return address list)<br>20a7239c: ShFinishPacket(pc)<br>20a6b0bc: ShBuildDhKeyExchangeReply(lr)<br>20a6b0bc: ShBuildDhKeyExchangeReply<br>20a6e620: ProcessClientDhMessage<br>20a6d9ec: ShProcessMessage<br>20a76b20: ProcessClientInputData<br>20a76414: ShFiniteStateMachine<br>20979d98: HandleProtocolAction<br>20979b78: HandleConnectionTask<br>20a5c364: ssh_connection_task<br>20a5cab0: ssh_socket_control<br>20a5f718: ssh_receive_data_ready<br>20a5f75c: ssh_tcp_receive_data_ready_callback<br>20b55668: itc_process_msgs_internal<br>20b55b14: itc_process_msgs<br>20a57d24: ssh_in_task<br>00005e18: sys_end_task |                                       |
| <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.<br><br>To configure an ACL to permit allowed hosts, enter commands such as the following:<br>device(config)# access-list 12 permit host x.x.x.x<br>device(config)# ssh access-group 12<br>device(config)# write memory                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       |

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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).                                                                                                        |                                                |



**Workaround:** 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 R06.1.00

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 12/19/2016 in R06.1.00.

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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> 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 interfaces 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 the remote end was removed.<br>2. When the remote end device is from a particular third-party: WDM/DTN-X. |                                                          |
| <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 06.1.00                                                                    | <b>Technology:</b> ACLs - Access Control Lists |
| <b>Symptom:</b> When IPv6 ACL is applied on a VEoVPLS interface, deny Logging syslogs 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 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> 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 and then restarts the BGP operation.                                                     |                                        |

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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> 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> This occurs with a scaled scenario on a slow server with a response time longer than 10 seconds. No path is available for the LSPs, so the LSPs keep retrying.        |                                             |
| <b>Condition:</b> The server response time should be within milliseconds. This is one of the main reasons to use PCE. The issue was seen only when using a third party test 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 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> 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> 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> 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> 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> 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 OSPv3 config to enable LSA-retransmit traps. |                                                           |

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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> 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 software exception occurred with the below syslog and stack trace without any user intervention.<br><br>SYSLOG: <141>Mar 27 08:56:30 R50-MLXe8 System: Module down in slot 5, reason CARD_DOWN_REASON_REBOOTED. Error Code 0<br><br>Stack Trace:<br>===== |                                        |
| Possible Stack Trace (function call return address list)<br>00000000: .zero(pc)<br>20c18bec: ipc_multi_module_handler(lr)<br>20c1b1f0: ipc_process_messages<br>20c1b9cc: ipc_receive_packet<br>20036d14: ge_process_ipc_data_msg<br>207f57b4: lp_ipc_task<br>00040158: sys_end_task   |                                        |
| <b>Condition:</b> LP SW exception will occur while handling message from Management Module. This condition was created when BGP neighbor was flapping on management module and was sending lots of route update to LC                                                                 |                                        |
| <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 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> 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> 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 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> 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> 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 |

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| <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> DEFECT000596213                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                 |
| <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> In rare corner cases, the following error messages appear and the "enable" prompt can't be reached.<br>Error:send_port_state_down_event: Sync to standby MP failed (err = Timeout)<br>Warn:send_port_state_up_event: Sync to standby MP failed (err = Timeout)<br>Error:send_port_state_down_event: Sync to standby MP failed (err = Timeout)<br>Warn:send_port_state_up_event: Sync to standby MP failed (err = Timeout)<br>Error:send_port_state_down_event: Sync to standby MP failed (err = Timeout) |                                                 |
| <b>Condition:</b> System is a scaled setup having 4k vlan, ipv6, ipv4, vpls, mpls, muticast, ipsec features running.<br>The issue is seen after reload of the setup.                                                                                                                                                                                                                                                                                                                                                     |                                                 |
| <b>Workaround:</b> No Workaround                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| <b>Recovery:</b> Reload the router                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |

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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 <ul style="list-style-type: none"> <li>- a chassis reload or</li> <li>- an LP insertion while traffic is present, or</li> <li>- an LP reboot while traffic is present.</li> </ul>                                                                                                                                         |                                                    |
| <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: - <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> DEFECT000598531                                                                            |                                                |
| <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> Incorrect ACL index displayed in the running configuration                                   |                                                |
| <b>Condition:</b> When 4K ACLs are supported and sequence numbers greater than 2^18 are used for the filters |                                                |

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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> DEFECT000599286                                                                                             |                                                                        |
| <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 05.6.00                                                                                        | <b>Technology:</b> AAA - Authentication, Authorization, and Accounting |
| <b>Symptom:</b> TACACS+ server accounting log displays the password in plain text.                                            |                                                                        |
| <b>Condition:</b> TACACS+ accounting is configured and any command that has password associated with it is executed from CLI. |                                                                        |

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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                         |                                                |

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| 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> DEFECT000599891                                                           |                                              |
| <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 06.0.00                                                      | <b>Technology:</b> Rate Limiting and Shaping |
| <b>Symptom:</b> Unable to un-configure "rate-limit ce-refresh-intrv" by disabling "qos-pol" |                                              |
| <b>Condition:</b> disabling "qos-pol" before disabling " rate-limit ce-refresh-intrv"       |                                              |
| <b>Workaround:</b> disable "rate-limit ce-refresh-intrv" before disabling "qos-pol"         |                                              |

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| <b>Defect ID:</b> DEFECT000600100                                                                                                                                                                |                                               |
| <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 output of the show command "show packet-encap-processing" also displays slot information of the slots which do not have packet-encap-processing features configured on them. |                                               |
| <b>Condition:</b> Configure packet-encap-features on 1 slot out of 2 or more slots present in the MLX device. Then execute the command "show packet-encap-processing".                           |                                               |

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| <b>Defect ID:</b> DEFECT000600108                                                                                                              |                                                 |
| <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> CLI - Command Line Interface |
| <b>Symptom:</b> Not able to enable the configuration for generating the PCEP traps through CLI command "snmp-server enable traps pcep".        |                                                 |
| <b>Condition:</b> When trying to enable the configuration for generating PCEP traps, through the CLI command "snmp-server enable traps pcep".  |                                                 |
| <b>Workaround:</b> Need to use the CLI command "snmp-server enable traps mpls pcep" to enable the configuration for generating the PCEP traps. |                                                 |

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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> Unexpected reload of standby Management module.                                                                                    |                                        |
| <b>Condition:</b> This issue may be observed when a large number of IPsec tunnels are configured and the IPSEC re-keying mechanism is in progress. |                                        |

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| <b>Defect ID:</b> DEFECT000600153                                                                                                                                                           |                              |
| <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> Enabling OpenFlow on the LAG's primary port may transition LAG ports into LACP blocked state.                                                                               |                              |
| <b>Condition:</b> OpenFlow configuration on primary port of a LAG is prerequisite.<br>Enable OpenFlow on the primary port of a LAG.<br>Witness the LAG ports going into LACP blocked state. |                              |

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| <b>Defect ID:</b> DEFECT000600155                                                                                                                                                |                              |
| <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> LAG undeploy is blocked after OpenFlow is disabled on primary port of the LAG                                                                                    |                              |
| <b>Condition:</b> Enable OpenFlow on a LAG primary port.<br>Disable OpenFlow from the LAG primary port.<br>Try to undeploy the LAG, witness LAG undeploy is blocked by openflow. |                              |

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| <b>Defect ID:</b> DEFECT000600170                                                                                              |                              |
| <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> Trigger OpenFlow "mpls-us-enable" enable/disable command on CLI continuously, BFD may flap at a point of time. |                              |
| <b>Condition:</b> Configure OpenFlow mpls-us-enable with BFD enable in system.                                                 |                              |
| <b>Workaround:</b> Use High BFD timeout value say 2 sec.                                                                       |                              |

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| <b>Defect ID:</b> DEFECT000600232                                                                                     |                                                             |
| <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 06.0.00                                                                                | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> Packet in L2VPN payload is reformed as L3 and hence causing some packets to drop at the egress device |                                                             |
| <b>Condition:</b> This issue will happen when an OpenFlow rule is created with L2VPN label in action.                 |                                                             |

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| <b>Defect ID:</b> DEFECT000600325                                      |                                                             |
| <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 06.0.00                                 | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> After an MP Switchover - observe MCT VPLS traffic drop |                                                             |
| <b>Condition:</b> MP switchover with MCT VPLS config                   |                                                             |
| <b>Workaround:</b> use "clear mac address vpls" command.               |                                                             |

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| <b>Defect ID:</b> DEFECT000600352                                                                                                                                                                                                                                                                                  |                                                              |
| <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> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> The configuration "lag primary-port-dynamic" enables the user to change the primary port on a deployed LAG.<br>This support not being enabled on SNMP, the user would see the following error when tried to change the primary port of a deployed LAG.<br>Error in packet.<br>Reason: not Writable |                                                              |
| <b>Condition:</b> The error can be encountered when attempted to change the primary port of a deployed LAG with primary-port-dynamic enabled.                                                                                                                                                                      |                                                              |

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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> 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.<br>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> 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> DEFECT000601056                                                                                                                                                                                                                                                        |                                                              |
| <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> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> A deployed LAG must always have a primary port. The feature "port-primary-dynamic" enables election of the primary port, among the ports configured for the LAG.<br>Since the feature was not supported in SNMP, it would accept and configure the primary port to zero. |                                                              |
| <b>Condition:</b> With the configuration "lag port-primary-dynamic" enabled, SNMP may accidentally set primary port to 0.                                                                                                                                                                |                                                              |

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| <b>Defect ID:</b> DEFECT000601068                                                                                                                     |                                                              |
| <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> CLI rejects no-deploy when 2 or more ports of the LAG are enabled.<br>SNMP had no such restriction unlike CLI                         |                                                              |
| <b>Condition:</b> Setting LAG status to No-deploy from SNMP, for a LAG which has 2 or more of its ports enabled, would be accepted without any errors |                                                              |

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| <b>Defect ID:</b> DEFECT000601178                                                                        |                                                         |
| <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> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> Convergence timer is higher for a FRR enabled LSP.                                       |                                                         |
| <b>Condition:</b> This happens when a MM switch-over is performed on an intermediate node in a LSP path. |                                                         |

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| <b>Defect ID:</b> DEFECT000601298                                           |                                     |
| <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> sFlow            |
| <b>Symptom:</b> sFlow samples sent to sFlow collector are corrupted         |                                     |
| <b>Condition:</b> Interface is configured with sFlow sampling and IPv6 ACL. |                                     |

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| <b>Defect ID:</b> DEFECT000601379                                                                                                                                                            |                                                              |
| <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> SNMP OID mplsLspAutoBWSampleRecordingEnable output for "sample-recording" field does not match the corresponding CLI output for "show mpls lsp name <lsp_name> auto" command |                                                              |
| <b>Condition:</b> MPLS LSP primary path is configured and sample recording is disabled on the primary path using CLI.                                                                        |                                                              |

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| <b>Defect ID:</b> DEFECT000601542                                                                                                              |                                        |
| <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> 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> 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> 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> 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> DEFECT000601789                                                                                                              |                                           |
| <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> 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> DEFECT000601805                                                                                          |                                                |
| <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> Syslogs are not generated for IPv4 RACL permit logging.                                                    |                                                |
| <b>Condition:</b> Bind IPv4 RACL before creating the IPv4 ACL                                                              |                                                |
| <b>Workaround:</b> Execute "ip rebind-receive-acl all"<br>or<br>Unbind and then bind receive ACL after the acl is created. |                                                |

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| <b>Defect ID:</b> DEFECT000601808                                                                                                                                     |                                                              |
| <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> Sample-recording functionality does not work when auto-bandwidth enabled secondary path of an LSP is activated even with sample-recording configured. |                                                              |
| <b>Condition:</b> Secondary path on which auto-bandwidth is enabled with sample-recording feature gets activated.                                                     |                                                              |
| <b>Workaround:</b> Create a template with sample recording enabled and apply to the secondary path                                                                    |                                                              |
| <b>Recovery:</b> Create a template with sample recording enabled and apply to the secondary path                                                                      |                                                              |

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| <b>Defect ID:</b> DEFECT000601841                                                                                                                                                          |                                                              |
| <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> SNMP - Simple Network Management Protocol |
| <b>Symptom:</b> Standby MP software exception is observed and MP will reload                                                                                                               |                                                              |
| <b>Condition:</b> 'Deploy' and 'No Deploy force' SNMP requests for a LAG, with very less time gap between the commands, on a loaded setup will cause software exception on the standby MP. |                                                              |

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| <b>Defect ID:</b> DEFECT000601969                                                                                       |                                                |
| <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> Permit logging doesn't work on traffic received on secondary ports of the LAG.                          |                                                |
| <b>Condition:</b> Permit logging is configured on primary port of a LAG and traffic is received on the secondary ports. |                                                |

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| <b>Defect ID:</b> DEFECT000602060                                                              |                                              |
| <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 06.0.00                                                         | <b>Technology:</b> MRP - Metro Ring Protocol |
| <b>Symptom:</b> Interface statistics shows packet counts more than expected after switchover.  |                                              |
| <b>Condition:</b> This may be seen some times when switchover is done with MRP configurations. |                                              |

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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> DEFECT000602475                                                                                                |                                                |
| <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> When "mpls-unknown-label-forward" configuration is applied, the packets are getting dropped in the transit node. |                                                |
| <b>Condition:</b> Enabling "openflow mpls-us-enable" configuration made the non-openflow ports to behave as openflow MPLS.       |                                                |

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| <b>Defect ID:</b> DEFECT000602514                                                 |                                                   |
| <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 VLL - Virtual Leased Line |
| <b>Symptom:</b> CER device may reload upon deletion of MCT VLL peer configuration |                                                   |
| <b>Condition:</b> Deletion of MCT-VLL peer configuration                          |                                                   |

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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> DEFECT000602832                                                                                                                                         |                              |
| <b>Technical Severity:</b> Critical                                                                                                                                       | <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> When OpenFlow rules are configured in reverse order of priority, there can be 100% traffic loss.                                                          |                              |
| <b>Condition:</b> 1. Configure OpenFlow rule with priority 100<br>2. Configure OpenFlow rule with priority 90<br>3. Observe 100% traffic loss on the first OpenFlow rule. |                              |
| <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> 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> 1. Configure OpenFlow rule with priority 100<br>2. Configure OpenFlow rule with priority 90 on the same port.<br>3. Observe complete traffic loss. |                              |
| <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> DEFECT000602912                                                                                                                                                             |                                                 |
| <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> rate-limit configuration not reflecting properly on a LAG.<br>"show rate-limit" command output also does not display the rate-limit configuration.                            |                                                 |
| <b>Condition:</b> When port-primary-dynamic feature is enabled and when primary port is changed dynamically after deployment.<br><br>Note: this defect is applicable from 6.0 release onwards |                                                 |
| <b>Recovery:</b> Configure the rate-limit parameters on the LAG again (after changing the primary port)                                                                                       |                                                 |

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| <b>Defect ID:</b> DEFECT000602943                                                                                                                                                                                                |                                                              |
| <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> Invalid IGMP static group IP address (syntactically invalid) is accepted in CLI and shown in running configuration. For example, if user enters mcast grp ip 244.10.10.1 as 244.10.101 the CLI will be accepted. |                                                              |
| <b>Condition:</b> While configuring IGMP static entry, device will accept a syntactically incorrect group IP address.                                                                                                            |                                                              |

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| <b>Defect ID:</b> DEFECT000602988                                                              |                                                             |
| <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 06.0.00                                                         | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> VLL Traffic loss will occur when VLL instances are removed and then added back |                                                             |
| <b>Condition:</b> Removing VLL instances and then re-added via SCP.                            |                                                             |
| <b>Recovery:</b> Reload the device where VLL instances were removed and added back.            |                                                             |

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| <b>Defect ID:</b> DEFECT000603088                                                                                 |                                                |
| <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> Deny logging syslog messages aren't generated when enabled for IPv6 receive ACLs                  |                                                |
| <b>Condition:</b> This can occur when user configures IPv6 receive ACL and enables IPv6 receive ACL deny logging. |                                                |

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| <b>Defect ID:</b> DEFECT000603095                                                                                                                                                                                                                                                                                                                    |                                                         |
| <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> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> Device unexpectedly reloads                                                                                                                                                                                                                                                                                                          |                                                         |
| <b>Condition:</b> (1) Have 2 ASBRs in 2 different areas (ex: area-0 & area-200) and there is a ABR connecting the ASBRs in those respective areas.<br>(2) Have both the ASBRs originating the same external destination (x.x.x.0/24) one with forwarding address set and the other not set.<br>(3) when configuration rfc1583 is disabled on the ABR |                                                         |
| <b>Workaround:</b> enable rfc1583 on the ABR                                                                                                                                                                                                                                                                                                         |                                                         |

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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> DEFECT000603263                                                                                                                                          |                              |
| <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 an OpenFlow rule with action send to controller is present and if the LC is reloaded, the traffic will not hit the OpenFlow rule even after LC is up. |                              |
| <b>Condition:</b> 1.Create OpenFlow rule with action send to controller.<br>2. Reload LP.<br>3. After LP is up, witness traffic drop.                                      |                              |

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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> 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 terminate the TCP or SSL session, this remote event was not handled by the switch to log the informational event of closing the connection.<br>While normal close and keep-alive timeout 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> DEFECT000603801                                                                                                                                               |                                      |
| <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> High Availability |
| <b>Symptom:</b> Standby MP resets silently while running the script containing the clearing of multiple protocols' data (bgp, ospf , mpls LSP and VPLS Mac) in quick succession |                                      |
| <b>Condition:</b> Repeatedly clean multiple protocols' data (bgp, ospf , mpls LSP and VPLS Mac) by running a script with few seconds gap between each CLI command.              |                                      |
| <b>Workaround:</b> Increase the timegap between the CLI commands.                                                                                                               |                                      |

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| <b>Defect ID:</b> DEFECT000603818                                      |                                                 |
| <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> MCT Cluster will not be deployed after MP switchover.  |                                                 |
| <b>Condition:</b> "No deploy" LAG which is used as ICL in MCT Cluster. |                                                 |

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| <b>Defect ID:</b> DEFECT000603899                                                                           |                                               |
| <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 05.9.00                                                                      | <b>Technology:</b> Configuration Fundamentals |
| <b>Symptom:</b> Unexpected reload of management module on MLX when loading the start-up configuration file. |                                               |
| Possible Stack Trace (function call return address list)                                                    |                                               |
| 201171e0: copy_startConfig_runConfig(pc)                                                                    |                                               |
| 201171dc: copy_startConfig_runConfig(lr)                                                                    |                                               |
| 20117968: init_runConfig_from_startConfig                                                                   |                                               |
| 20177358: console_task                                                                                      |                                               |
| 00005e18: sys_end_task                                                                                      |                                               |
| <b>Condition:</b> When loading start-up configuration file with 100K ACLs.                                  |                                               |

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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> DEFECT000604050                                                                                                                                                                                                                                               |                                                        |
| <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> Static Routing (IPv6)               |
| <b>Symptom:</b> On a CER/S device, when an IPv6 static route entry exists and a new IPv6 static route is added (less or more specific for the existing prefix), traffic pertaining to that prefix is either dropped OR forwarded on the interface associated with the old entry |                                                        |
| <b>Condition:</b> When an IPv6 static route entry exists and a new IPv6 static route is added (less or more specific for the existing prefix)                                                                                                                                   |                                                        |
| Note: Issue is applicable only for CER/S devices                                                                                                                                                                                                                                |                                                        |
| <b>Workaround:</b> Remove the existing IPv6 static route and then add the new entry                                                                                                                                                                                             |                                                        |
| <b>Recovery:</b> Remove both the IPv6 static routes (old and new) and apply the new entry again                                                                                                                                                                                 |                                                        |

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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> DEFECT000604159                                                                                                  |                              |
| <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> OpenFlow matched traffic is forwarded to any one of the 8 queue, when flows are added with invalid queue-id (> 8). |                              |
| <b>Condition:</b> Flow addition/modification with Invalid queue-id in its action                                                   |                              |
| <b>Recovery:</b> This issue has been fixed in current release                                                                      |                              |

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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 |
| <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.                                                                                                                                         |                                               |
| <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. |                                               |
| <b>Workaround:</b> Define route-map before binding on interface for L2PBR entries to be programmed.                                                                                                                                                                                                              |                                               |

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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> DEFECT000604628                                                                                                 |                                                 |
| <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> CLI - Command Line Interface |
| <b>Symptom:</b> A system reload happens when debug destination is SSH, enable "debug ip pim oif add-del" and clearing PIM mcache. |                                                 |
| <b>Condition:</b> If PIM is enabled and debug output is sent to SSH.                                                              |                                                 |





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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> DEFECT000605113                                                                                                                       |                              |
| <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  |
| <p><b>Symptom:</b> While adding OpenFlow rule with output port and queue, reloading the linecard can see unexpected software exception in Linecard.</p> |                              |
| <p><b>Condition:</b> Adding OpenFlow rule with output port and queue, and reload the line card</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 |
| <b>Symptom:</b> Parse error due to missing double quotes in two lines in MIB file.<br><br>1) --#TYPE "Brocade Trap: Lockup and recovery threshold exceeded<br>2) -- Destination %s SPI %s Message Type %u. |                                                              |
| <b>Condition:</b> MIB Compile errors seen due to parsing issues in certain SNMP Managers.                                                                                                                  |                                                              |

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| <b>Defect ID:</b> DEFECT000605322                                                                                                                                 |                                        |
| <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> Management module resets when "show optic" command is issued immediately after inserting 100G QSP28 optic module into the CFP2 to QSFP28 adapter. |                                        |
| <b>Condition:</b> Only if the CFP2 to QSFP28 adapter is in port 1 and port 2 has an optical module present.                                                       |                                        |

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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> DEFECT000605694                                                                                                                                                                                                                           |                                                 |
| <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 06.0.00                                                                                                                                                                                                                      | <b>Technology:</b> LAG - Link Aggregation Group |
| <b>Symptom:</b> LAG's primary port automatically changes to a new port when some member's port are deleted from the LAG.                                                                                                                                    |                                                 |
| <b>Condition:</b> When a group of ports are deleted from a LAG, and if the primary port does not belong to the group of ports deleted, then the primary port of the LAG changes. This issue will occur when dynamic LAG primary port feature is configured. |                                                 |

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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> DEFECT000605788                                                                                                            |                                                              |
| <b>Technical Severity:</b> Critical                                                                                                          | <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> Management module may hit an exception and may undergo reload on continuous enable/disable of PCEP using '[no] router pcep'. |                                                              |
| <b>Condition:</b> While SNMP walk on PCEP MIB is underway, repeatedly unconfigure and configure PCEP router using "[no] router pcep" command |                                                              |
| <b>Recovery:</b> Reload the router after management module exception if auto reload is disabled.                                             |                                                              |

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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> DEFECT000606557                                                                                                                                                                           |                                                             |
| <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> BFD - BiDirectional Forwarding Detection |
| <b>Symptom:</b> Line card may reload while handling BFD session creation                                                                                                                                    |                                                             |
| <b>Condition:</b> This issue is observed when creating BFD over trunk.<br>It could occur if trunk goes DOWN or flaps during BFD session initiation.<br>This may occur when BFD session are getting created. |                                                             |

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| <b>Defect ID:</b> DEFECT000607543                                                                                                                                                                                                                        |                                                    |
| <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> Software Installation & Upgrade |
| <b>Symptom:</b> "cu_get_one_port_gig_type_from_lp(): mpls_show_send_request_to_lp() failed (2)" error thrown during MBRIDGE image sync to standby MP while performing simplified upgrade. No impact on simplified upgrade and it completes successfully. |                                                    |
| <b>Condition:</b> Performing simplified upgrade. Conditions are not definite.                                                                                                                                                                            |                                                    |

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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> 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> 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> During SNMP polling of 100Gx2-CFP2 optics OR the CFP2 to QSFP28 adapter, the Management module may unexpectedly reload and switch over 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> 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. 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 |
| <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.<br><br>This issue will occur if PBIF (Hardware TX assist) is enabled and could be seen after BFD session state is UP. |                                                             |
| <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                                                                                                                                                                                                  |                                        |
| <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. |                                        |
| <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.                                         |                                        |

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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> <p>2243d048: memcpy(pc)<br/> 209ae9e4: A1RecordCrypt(lr)<br/> 209adf34: A1RecordProcess<br/> 209a928c: A1ConnectionDispatch<br/> 209af994: SsiReceiveStatus<br/> 2097ab68: AsCheckTcpReceiveStatus<br/> 2097a598: HandleWaitingForReceive<br/> 20979c14: HandleConnectionTask<br/> 209799b4: AllegroMainTask<br/> 20990084: http_web_agent<br/> 20990b70: http_timer_callback<br/> 20b556f4: itc_process_msgs_internal<br/> 20b55ba0: itc_process_msgs<br/> 209911f4: web_task<br/> 00005e18: sys_end_task</p> |                                   |
| <b>Condition:</b> Continuous data transfer through HTTPS connection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |

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| <b>Defect ID:</b> DEFECT000610601                                                                                                                                                                                                                                                                                                                                                             |                                                              |
| <b>Technical Severity:</b> Critical                                                                                                                                                                                                                                                                                                                                                           | <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> MP module resets due to accessing an invalid memory. Issue was seen when having a “100Gx2-CFP2 2-port 100GbE Module” module with the optic type “100GE QSFP28” in the first port and poll for any of the following SNMP tables.</p> <ul style="list-style-type: none"> <li>o snIfOpticalMonitoringInfoTable</li> <li>o snIfOpticalLaneMonitoringTable</li> </ul>           |                                                              |
| <p><b>Condition:</b> The issue was seen when having a “100Gx2-CFP2 2-port 100GbE Module” module with the optic type “100GE QSFP28” in the first port and second port can have either CFP2 or QSFP28 optic and and poll for any of the following SNMP tables.</p> <ul style="list-style-type: none"> <li>o snIfOpticalMonitoringInfoTable</li> <li>o snIfOpticalLaneMonitoringTable</li> </ul> |                                                              |
| <b>Workaround:</b> If possible try to exclude the SNMP tables (snIfOpticalMonitoringInfoTable, snIfOpticalLaneMonitoringTable) from polling.                                                                                                                                                                                                                                                  |                                                              |

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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> 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> 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 disabling and enabling an interface having CFP2 SR10 or QSFP28 transceiver modules. |                                        |
| <b>Condition:</b> This issue is specific to QSFP28 and CFP2 SR10.                                                                                         |                                        |

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| <b>Defect ID:</b> DEFECT000610993                                                                                                                     |                                                        |
| <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> Router will experience elevated CPU usage on the management module which may hamper its normal operation.                             |                                                        |
| <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> 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 a sFlow configuration but the member ports to be added in the LAG have a 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> DEFECT000612383                                                                                                                                               |                                                        |
| <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> First packet to directly connected host is dropped after GRE tunnel termination.                                                                                |                                                        |
| <b>Condition:</b> L3 forwarding to directly connected host after GRE termination. IP route for interface subnet route programmed to trap and no host entry is programmed in HW. |                                                        |

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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 |
| <p><b>Symptom:</b> Error message (error - H4) is getting displayed during reload.</p> <p>Sample output is given below: -</p> <pre> Router#reload Checking for coherence... Done. Are you sure? (enter 'y' or 'n'): y Halt and reboot  NetIron XMR/MLX Boot Code Version 5.9.0  ///// OUTPUT TRUNCATED /////  system memory: 4294967295, available 3506524160 FID manager initialized ... Start init runconfig from start config Load config data from flash memory... error - H4 </pre> |                                                |
| <p><b>Condition:</b> No ACL is bound to any interface on the device, "force-delete-bound-acl" is enabled and the device is reloaded.</p> <p>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.</p>                                                                                                                                         |                                                |
| <p><b>Workaround:</b> Avoid using "force-delete-bound-acl" command option when no ACL is bound to any interface on the device</p>                                                                                                                                                                                                                                                                                                                                                       |                                                |

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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 |
| <p><b>Symptom:</b> RPF loose mode doesn't work. Packets are routed instead of dropping when there is no valid source route.</p> |                                    |
| <p><b>Condition:</b> "sflow null0-sampling" is configured with RPF loose mode.</p>                                              |                                    |

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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> 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.                                |                                                         |

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> DEFECT000616566                                                                                                                                                                                               |                                               |
| <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> Management module hit a software exception and will reload when user pastes the self-signed certificate with invalid time range                                                                                 |                                               |
| <b>Condition:</b> The SW exception occurs when user pastes the self-signed certificate on terminal with not a valid time range. This should be avoided, as entering invalid certificates is not needed in customer environment. |                                               |

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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           |
| <p><b>Symptom:</b> CES/CER may unexpectedly reload with the following stack trace :-</p> <p>Possible Stack Trace (function call return address list)</p> <p>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</p> |                                     |
| <p><b>Condition:</b> There is no known condition/trigger for this issue.</p> <p>Note: This is specific to CES/CER only.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |

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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 |
| <p><b>Symptom:</b> Linecards on an MLX unexpectedly reloading at random intervals. The stack trace seen using the "show save" command is as follows -</p> <p>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</p> |                                        |
| <p><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.</p>                                                                                                                                                                                                                                                               |                                        |

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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 Queuing 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. |                                       |

**Condition:** 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> DEFECT000619879                                                                                                               |                                              |
| <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 06.1.00                                                                                                          | <b>Technology:</b> Rate Limiting and Shaping |
| <b>Symptom:</b> Access-list accounting output displays accounting even if "enable-accounting" isn't configured in the rule.                     |                                              |
| <b>Condition:</b> This can be seen when the command to display access-list accounting for ACL based rate-limiting bindings is executed by user. |                                              |

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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> 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:-                                                                                                                                                                                                                                                    |                                                         |
| <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: -                                                                                                                      |                                                         |
| <pre> Possible Stack Trace (function call return address list) 20ef84a4: ospf_router_receive_packet_callback(pc) 20ef849c: ospf_router_receive_packet_callback(lr) 20a1c040: itc_process_msgs_internal 20a1c380: itc_process_msgs 20ef775c: ospf_msg_task 00005e18: sys_end_task </pre> |                                                         |
| <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> 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> 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 a 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> 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> DEFECT000623554                                                                                                                                                                                                                                                                                                                            |                                        |
| <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> Even if the user saves the changes in the 'fan-threshold' configuration, those are not applied after reload or switchover. Users will also see the error related to invalid input while the system boots. For example,<br>'Invalid input -> med 65 80 med-hi 73 90 hi 75 105, fan-threshold lp-tcam low 68 med 65 80 med-hi 73 90 hi 75 105' |                                        |
| <b>Condition:</b> When user does some changes in the configuration pertaining to 'fan-threshold', saves the changes and reload or switchover.                                                                                                                                                                                                                |                                        |
| <b>Recovery:</b> Remove the config related to 'fan-threshold' and save the config.                                                                                                                                                                                                                                                                           |                                        |

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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> <pre> 20fd7150: bgp_prepare_nlri_holder(pc) 20fd5e5c: bgp_best_route_selection_with_sorting(lr) 20fd5e5c: bgp_best_route_selection_with_sorting 20fd6574: bgp_best_route_selection_and_change 20fa6c94: bgp_check_and_update_bgp_route_in_ip_table_as_necessary 20fa63a8: bgp_add_bgp_routes_to_routing_table_if_necessary_callback 210336ec: bgp_tree_partial_traverse_with_possible_change 20fa67cc: bgp_add_bgp_routes_to_routing_table_if_necessary 20fb4764: bgp_check_updates 20fc1420: bgp_timer 20fc1050: bgp_timeout_func 20b92d10: itc_process_msgs_internal 20b931bc: itc_process_msgs 21015b80: bgp_task 00005e18: sys_end_task </pre> |                                                        |
| <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> 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 |
| <p><b>Symptom:</b> CES/CER may unexpectedly reload with the following stack trace :-</p> <p>Possible Stack Trace (function call return address list)</p> <pre> 21ff3114: memset(pc) 2037c4ac: os_malloc_zero(lr) 2097b280: mlp_send_itc_response 2097bf40: mlp_process_lp_data_response_continue 2095579c: itc_continue_deferred_response 2097c61c: mlp_process_lp_data_response 20954920: itc_process_msgs_internal 20954c58: itc_process_msgs 2097e408: lp_agent_task 00040158: sys_end_task </pre> |                                        |
| <p><b>Condition:</b> There is no known condition for this issue to occur.</p>                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |

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| <b>Defect ID:</b> DEFECT000625221                                                                                                                                            |                                   |
| <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 06.1.00                                                                                                                                       | <b>Technology:</b> HTTP/HTTPS     |
| <b>Symptom:</b> This Defect is created as per CVE-2016-2183: The DES, and Triple-DES ciphers susceptible to "Sweet32" attack. (Birthday bound of approx 4 billion blocks)    |                                   |
| <b>Condition:</b> This Defect is created as per CVE-2016-2183: The DES, and Triple-DES ciphers susceptible to "Sweet32" attack. (Birthday bound of approx 4 billion blocks). |                                   |
| <b>Workaround:</b> Do not use DES, or Triple-DES ciphers from a Web Browser.                                                                                                 |                                   |
| <b>Recovery:</b> Do not use DES, or Triple-DES ciphers from a Web Browser.                                                                                                   |                                   |

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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:-<br><br><pre> 2034e390: pim_remove_oif_from_entry 21db84e8: pim_assert_update_oif_state 21db9544: pim_assert_cleanup_state 21db9304: pim_assert_cancel_assert 21db8798: pimsm_assert_run_fsm 2034d280: pim_add_oif_to_entry 21d266ac: mcast_mct_process_ingress_change 20352b7c: mcast_set_parent_phy_port 21da0794: pimsm_l2reg_update_phy_port_from_arp 21da0d1c: pim_process_register_msg 21daff90: mcast_receive_slave_message_internal 21daeb90: mcast_receive_slave_message 209f040c: itc_process_msgs_internal 209f08ac: itc_process_msgs 21d23378: mcast_task 00040158: sys_end_task </pre> |                                           |
| <b>Condition:</b> When PIM ASSERT Winner OIF moves to blocked state.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |

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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 without code changes R06.2.00

This section lists software defects with Critical, High, and Medium Technical Severity closed without a code change as 09/22/2017 in NetIron 06.2.00.

|                                                                                                                                                                 |                                 |
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| <b>Defect ID:</b> DEFECT000600296                                                                                                                               | <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 06.0.00                                                                                                                          | <b>Technology:</b> OpenFlow     |
| <b>Symptom:</b> ARP packets are not sent to controller for flows which match on ether type ARP and with action as normal with controller action and mirror port |                                 |
| <b>Condition:</b> Issue is seen when the flow does not match on a vlan.                                                                                         |                                 |

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| <b>Defect ID:</b> DEFECT000603828                                                                                     | <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 06.0.00                                                                                | <b>Technology:</b> OSPFv3 - IPv6 Open Shortest Path First |
| <b>Symptom:</b> Very rarely router restart is observed if we issue "clear ipv6 ospf neighborhood" in scaled topology. |                                                           |
| <b>Condition:</b> Invoking "clear ipv6 ospf neighborhood" multiple times in OSPFv3 scaled topology.                   |                                                           |

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| <b>Defect ID:</b> DEFECT000608806      | <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> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 06.0.00 | <b>Technology:</b> IPv6 Addressing                     |
| <b>Symptom:</b> Unexpected LP reload   |                                                        |
| <b>Condition:</b> Shortly after reload |                                                        |

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| <b>Defect ID:</b> DEFECT000609198          | <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> 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> Unexpected LP reload.      |                                                         |
| <b>Condition:</b> Flapping OSPF interfaces |                                                         |

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| <b>Defect ID:</b> DEFECT000614649    | <b>Technical Severity:</b> Medium          |
| <b>Reason Code:</b> Not Reproducible | <b>Probability:</b> Medium                 |
| <b>Product:</b> Brocade NetIron OS   | <b>Technology Group:</b> Layer 2 Switching |

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| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                               | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Multicast and Broadcast traffic may be dropped for up to 5sec during reloading or MM switchover on a MCT peer without linked CCEP                                    |                                                 |
| <b>Condition:</b> Seen when performing a reload or management module switchover on an MCT peer with all edge ports including CCEP ports shutdown and only ICL and Spoke PW ports UP. |                                                 |

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| <b>Defect ID:</b> DEFECT000617414                                                                                                                             | <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 06.1.00                                                                                                                        | <b>Technology:</b> Software Installation & Upgrade |
| <b>Symptom:</b> During bootup, occasionally the user may encounter the following error related to flash.<br><br>code_flash_block_erase: timeout, f91c0000: 80 |                                                    |
| <b>Condition:</b> The error may occur during bootup without any user intervention.<br>Bootup continues and system comes up as usual.                          |                                                    |

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| <b>Defect ID:</b> DEFECT000617839                                                                                                                                                                                                                                                                              | <b>Technical Severity:</b> High                                        |
| <b>Reason Code:</b> Design Limitation                                                                                                                                                                                                                                                                          | <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> In MLX32/MLXe32 chassis,<br>1. card in any upper slot (17 to 32) of the chassis will display as "Invalid Module " in "show module" and the card will be in boot state<br>2. the card in the corresponding lower slot( 1 to 16) may be rebooted continuously .                                  |                                                                        |
| <b>Condition:</b> 1. Issue occurs in MLX32/MLXe32<br>2. when any line card with incorrect PBIF FPGA version (of type 8x10G, 2x100G-SFP2, 2x100G-X, 4x40G, 20x10G, 4x10G-IPSEC) is inserted in upper slot(17 to 32) of the chassis, the line card in the corresponding lower slot will go for continuous reboot |                                                                        |
| <b>Recovery:</b> Replace bad line card with good one                                                                                                                                                                                                                                                           |                                                                        |

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| <b>Defect ID:</b> DEFECT000622505                                                                                                                          | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                               | <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> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> ARP address may be learnt on ICL port instead of CCEP                                                                                      |                                                 |
| <b>Condition:</b> 1) MCT cluster should be configured along with Client interface port.<br>2) Continuous switch over of Management Module on MCT peer node |                                                 |

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|----------------------------------------------|--------------------------------------------|
| <b>Defect ID:</b> DEFECT000622734            | <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 |

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| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                              | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> LP-IPC task on LP module exception is happening after MM switch-over in MCT topology.                                                                                               |                                                 |
| <b>Condition:</b> 1) MCT cluster should be deployed.<br>2) VPLS instances has to be configured about 1000.<br>3)VPLS peers has to be configured.<br>4)MM switch-over has to be given in Active MCT. |                                                 |

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| <b>Defect ID:</b> DEFECT000623310                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <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> SDN    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Technology:</b> OpenFlow     |
| <b>Symptom:</b> Line card may reload unexpectedly and become stuck in a rolling reboot with the following stack trace:<br><br>Possible Stack Trace (function call return address list)<br>2109e6f4: openflow_generic_mode_copy_flow_one_action(pc)<br>2109e474: openflow_generic_mode_copy_flow_one_action(lr)<br>2109eb88: openflow_generic_mode_copy_flow<br>2109f230: openflow_generic_mode_add_flow<br>210afe48: openflow_process_ipc_internal<br>210b1f14: openflow_lp_process_flow_operation<br>20bfb8ac: ipc_multi_module_handler<br>20bfdb6c: ipc_process_messages<br>20bacf6c: ipc_process_rel_msg<br>20bfe308: ipc_receive_packet<br>20034390: ge_process_ipc_data_msg<br>207eeac8: lp_ipc_task<br>00040158: sys_end_task |                                 |
| <b>Condition:</b> When there are OpenFlow flows with "send to controller" action configured in the system. The defect is applicable for releases prior to but not including NI 6.0.00.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |

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| <b>Defect ID:</b> DEFECT000625955                                                                                                           | <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> Management             |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                      | <b>Technology:</b> CLI - Command Line Interface |
| <b>Symptom:</b> The command reload-check may not work                                                                                       |                                                 |
| <b>Condition:</b> On running in lower versions with any higher version from 5.8 for upgrade in the presence of MR and Gen1 Line card Module |                                                 |

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| <b>Defect ID:</b> DEFECT000626266      | <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 06.0.00 | <b>Technology:</b> OSPF - IPv4 Open Shortest Path First |



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| <b>Symptom:</b> There will be higher CPU utilization after receiving around or more than 500 OSPFv2 Type-5 LSAs. |
| <b>Condition:</b> Running OSPFv2 protocol with VRF-lite.                                                         |

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| <b>Defect ID:</b> DEFECT000626429                                                                                                   | <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 06.0.00                                                                                              | <b>Technology:</b> Multi-VRF                           |
| <b>Symptom:</b> IPv6 traffic received on non-default VRF doesn't get rate-limited as per the configured rate-limiting on interface. |                                                        |
| <b>Condition:</b> IPv6 ACL based rate-limiting configured on interface for non-default VRF                                          |                                                        |

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| <b>Defect ID:</b> DEFECT000626434                                                                                                                                                                                               | <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> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                          | <b>Technology:</b> ARP - Address Resolution Protocol   |
| <b>Symptom:</b> ARP entries are not created for some of the Virtual Interfaces.                                                                                                                                                 |                                                        |
| <b>Condition:</b> Reload the device with more than 1k VE interfaces configured as IP unnumbered.<br><br>Example configuration:<br>interface ve <num><br>ip helper-address <a.b.c.d><br>ip unnumbered loopback <loopback number> |                                                        |
| <b>Recovery:</b> Reconfigure the VE interface.                                                                                                                                                                                  |                                                        |

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| <b>Defect ID:</b> DEFECT000627362                                                                                                                       | <b>Technical Severity:</b> Medium                  |
| <b>Reason Code:</b> Feature/Function Not Supported                                                                                                      | <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> 8x10G Line card down due to CARD_DOWN_REASON_NP_TM_LINK_ERROR.                                                                          |                                                    |
| <b>Condition:</b> On upgrading system from a lower version to 5.6J Patch.<br><br>NOTE: The defect is valid for 8x10G module and 5.6J patch branch only. |                                                    |

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| <b>Defect ID:</b> DEFECT000630872                                                                                      | <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> SDN    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                 | <b>Technology:</b> OpenFlow     |
| <b>Symptom:</b> Line card may reload unexpectedly and become stuck in a rolling reboot with the following stack trace: |                                 |

Possible Stack Trace (function call return address list)  
 2109e6f4: openflow\_generic\_mode\_copy\_flow\_one\_action(pc)  
 2109e474: openflow\_generic\_mode\_copy\_flow\_one\_action(lr)  
 2109eb88: openflow\_generic\_mode\_copy\_flow  
 2109f230: openflow\_generic\_mode\_add\_flow  
 210afe48: openflow\_process\_ipc\_internal  
 210b1f14: openflow\_lp\_process\_flow\_operation  
 20bfb8ac: ipc\_multi\_module\_handler  
 20bfdb6c: ipc\_process\_messages  
 20bacf6c: ipc\_process\_rel\_msg  
 20bfe308: ipc\_receive\_packet  
 20034390: ge\_process\_ipc\_data\_msg  
 207eeac8: lp\_ipc\_task  
 00040158: sys\_end\_task

**Condition:** When there are OpenFlow flows with "send to controller" action configured in the system

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| <b>Defect ID:</b> DEFECT000631477                                                                                                   | <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 06.0.00                                                                                              | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> Changing VPLS functional port flaps LACP.                                                                           |                                                             |
| <b>Condition:</b> Changing VPLS functional port flaps LACP.                                                                         |                                                             |
| <b>Workaround:</b> Do not modify in scaled mac scenarios.<br><br>As a workaround, customer can clear mac & then issue this command. |                                                             |

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| <b>Defect ID:</b> DEFECT000632440                                                                                                                                                                                                                                                                     | <b>Technical Severity:</b> Critical         |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                                                                                                                                                          | <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> Unexpected reset may be observed when reoptimize command is issued for an LSP.                                                                                                                                                                                                        |                                             |
| <b>Condition:</b> This issue will be seen when a new-instance of the LSP is being attempted, i.e., it is in admin_UP but oper_DOWN state; and user initiates manual re-optimization using the "mpls lsp reoptimize ..." command. The existing new-instance may have been initiated due to any reason. |                                             |
| <b>Workaround:</b> Clear the LSP.                                                                                                                                                                                                                                                                     |                                             |

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| <b>Defect ID:</b> DEFECT000633156                                                                       | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Already Fixed in Release                                                            | <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> CCEP (Cluster Client Edge Port) Up event may be delayed for 4-7 sec after Port up event |                                                 |

**Condition:** 1) MCT Active-Standby cluster should be configured with 4k VPLS instances  
2) Continuous removal and reinsertion of Active Management Module on Active MCT peer

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| <b>Defect ID:</b> DEFECT000633856                                              | <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 06.0.00                                         | <b>Technology:</b> VRRPv2 - Virtual Router Redundancy Protocol Version 2 |
| <b>Symptom:</b> User may observe that VRRP Master is not reachable             |                                                                          |
| <b>Condition:</b> This issue may be seen when VRRP owner transitions to Backup |                                                                          |

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| <b>Defect ID:</b> DEFECT000634539                                                                                                                                                                                                                                                                                                               | <b>Technical Severity:</b> Medium   |
| <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> Sysmon           |
| <b>Symptom:</b> Below log messages could be seen on LP console. There is no functional impact.<br><br>LP-6>Not monitoring, waiting for queue to flush. Count : 60<br>Not monitoring, waiting for queue to flush. Count : 60<br>Not monitoring, waiting for queue to flush. Count : 60<br>Not monitoring, waiting for queue to flush. Count : 60 |                                     |
| <b>Condition:</b> Applicable only when all the below conditions are met :<br><br>- software version 5.6jb<br>- module is 48x1G<br>- SPI CRC error monitoring is enabled ("sysmon spi crc-errors action" is configured)<br>- Mirroring is enabled on one or more ports in that PPCR                                                              |                                     |

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| <b>Defect ID:</b> DEFECT000634680                                                           | <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> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Connectivity issue between upstream and downstream routers with MCT Cluster |                                                 |
| <b>Condition:</b> Adding or removing a tagged port from a MCT member VLAN                   |                                                 |

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| <b>Defect ID:</b> DEFECT000634932                    | <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> SDN    |
| <b>Reported In Release:</b> NI 06.0.00               | <b>Technology:</b> OpenFlow     |
| <b>Symptom:</b> Unused flow may be added in hardware |                                 |

**Condition:** Normal action flow accepted by DUT without having unprotected vlan for the in port

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| <b>Defect ID:</b> DEFECT000638223                                         | <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 05.8.00                                    | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> Traffic loss is observed for some of the Multicast Groups |                                           |
| <b>Condition:</b> Management Module switch over with 4K IGMP Groups       |                                           |

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| <b>Defect ID:</b> DEFECT000640584                                                                                          | <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> MPLS   |
| <b>Reported In Release:</b> NI 05.8.00                                                                                     | <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> DEFECT000641455                                                                                          | <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 05.8.00                                                                                     | <b>Technology:</b> IP Addressing                       |
| <b>Symptom:</b> Packet Loss is seen on the specific VPLS instance. ARP packets are not making it across the VPLS instance. |                                                        |
| <b>Condition:</b> With VPLS CPU protection feature, and active primary port os the LAG is disabled.                        |                                                        |

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| <b>Defect ID:</b> DEFECT000642021                                                                              | <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> IP Multicast                   |
| <b>Reported In Release:</b> NI 05.6.00                                                                         | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Multicast traffic is forwarded to a node which is not a present member for that specific Group |                                                         |
| <b>Condition:</b> On receiving PIM Prune message from LHR to Upstream router                                   |                                                         |

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| <b>Defect ID:</b> DEFECT000642202  | <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 |

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| <b>Reported In Release:</b> NI 06.0.00                                                               | <b>Technology:</b> OSPFv3 - IPv6 Open Shortest Path First |
| <b>Symptom:</b> Establishing more than 300 OSPFv3 neighbors can result in MP reload in 'ospf6' task. |                                                           |
| <b>Condition:</b> Configuring more than 256 OSPFv3 neighbors.                                        |                                                           |
| <b>Recovery:</b> Reducing the neighborships to less than or equal to 256.                            |                                                           |

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| <b>Defect ID:</b> DEFECT000644878                                                                                                                                                                                                              | <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 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> DEFECT000648561                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Technical Severity:</b> High                 |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <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> Line card may unexpectedly reload with the following stack trace:-<br><br><pre> 20b26de8: xpp10ge_get_rl_table_value(pc) 20b26db8: xpp10ge_get_rl_table_value(lr) 20b2695c: xpp10ge_set_rl_table_value 20b27fc0: xpp10ge_set_remapping 20b28028: xpp10ge_init_remapping 20ab7ff4: xpp10ge_oper 20a72468: ppcr_oper 20a7333c: ppcr_set_rate_limiting_remap_all 20fa20d0: rl_lp_clear_ppcr_hw_config 20faae0c: chancer_rl_lp_hw_init 20faad84: lp_rl_hw_init 20fb65c4: sys_l4_hw_init 2000278c: sys_app_hw_init 2098f1f0: sys_init_cpu_module 207ed4b8: main 00040158: sys_end_task </pre> |                                                 |
| <b>Condition:</b> It is very rarely observed during a "hitless-reload mp primary lp primary"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 |

## Closed without code changes R06.1.00

This section lists software defects with Critical, High, and Medium Technical Severity closed without a code change as 12/19/2016 in R06.1.00.

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| <b>Defect ID:</b> DEFECT000562915                                             | <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> 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> DEFECT000579677                                                                        | <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> MPLS                               |
| <b>Reported In Release:</b> NI 05.7.00                                                                   | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> In some rare situation, incorrect MAC learning causes reach-ability issues on a CES/CER. |                                                             |
| <b>Condition:</b> Remote MAC learned under a wrong VPLS instance.                                        |                                                             |

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| <b>Defect ID:</b> DEFECT000580123                                                                                                                                                                | <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 05.8.00                                                                                                                                                           | <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> DEFECT000580784                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Technical Severity:</b> High                        |
| <b>Reason Code:</b> Design Limitation                                                                                                                                                                                                                                                                                                                                                                                                   | <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> Multiple time sensitive protocols like VRRP, BFD flap observed for short duration on a CES/R device.                                                                                                                                                                                                                                                                                                                    |                                                        |
| <b>Condition:</b> BGP flap on a CES/CER device with following scale of configuration: -<br>Number of BGP peers: More than 50<br>Number of routes installed in BGP database: close to one million<br>Number of routes in RTM: more than 500000<br>Number of VRRP router instances: more than 200<br>Number of OSPF neighbors : 10 or above<br>Number of BFD sessions: 5 or above<br><br>Note: This is applicable only for CES/R platform |                                                        |

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| <b>Defect ID:</b> DEFECT000588040                                                                                          | <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 06.0.00                                                                                     | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> Reload of devices in a MCT/VPLS network within 5-10 minute of each other may lead to MCT VPLS traffic loss |                                                             |
| <b>Condition:</b> Reload of devices with MCT VPLS configuration.                                                           |                                                             |

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| <b>Defect ID:</b> DEFECT000588168                                                                                                    | <b>Technical Severity:</b> Medium                           |
| <b>Reason Code:</b> Feature/Function Not Supported                                                                                   | <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> DEFECT000590226                                                                                                                                                                                                                                                                                                         | <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> 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> DEFECT000591513                                                                 | <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 05.7.00                                                            | <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>Reason Code:</b> Not Reproducible                                                                                         | <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> DEFECT000592787                                                                                                                   | <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 06.0.00                                                                                                              | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <b>Symptom:</b> LP module may hit an exception and is reset by the MP - after that about 80% of Local VPLS traffic is TM dropped - does not recover |                                                             |
| <b>Condition:</b> Line card reset post an exception may cause such conditions where 80% of the local VPLS traffic will be dropped at TM             |                                                             |

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| <b>Defect ID:</b> DEFECT000593492                                                                                                                                                      | <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> 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> DEFECT000594173                                                                                                                                                                                                                                                                                                                                                                                                   | <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 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>Reason Code:</b> Not Reproducible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <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_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. abc@xyz{296}:</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> DEFECT000595623                                                                                                                                                               | <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> 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> DEFECT000596126                                                                                                       | <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 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>Reason Code:</b> Not Reproducible                                              | <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> DEFECT000596272                                                                                          | <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 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>Reason Code:</b> Will Not Fix                                                                                                                                     | <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> DEFECT000597443                                                                                                                                                              | <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> 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 cameup but it's 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>               |                                             |

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| <b>Defect ID:</b> DEFECT000598427                                                                                                      | <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 05.9.00                                                                                                 | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> "client-interface shutdown" command does not bring the CCP down and MCT VPLS Active/Standby switchover does not happen |                                                 |
| <b>Condition:</b> VPLS should be configured and "client-interface shutdown" command should be issued                                   |                                                 |

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| <b>Defect ID:</b> DEFECT000599114                                                                                                                                                                                                                                                                                  | <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 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> DEFECT000599410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Technical Severity:</b> Medium                      |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <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> GRE - Generic Routing Encapsulation |
| <p><b>Symptom:</b> The "tunnel mtu" configuration under the GRE tunnel does not show up after system reload when the tunnel MTU is configured more than default GRE MTU (1476).</p> <p>Before reload:</p> <pre>#sh run int tun 1 interface tunnel 1  tunnel mode gre ip  tunnel mtu 1481  tunnel source a.b.c.d</pre> <p>After reload:</p> <pre>#sh run int tun 1 interface tunnel 1  tunnel mode gre ip  tunnel source a.b.c.d</pre> <p>Note: this is just a display issue and does not affect the functionality</p> |                                                        |
| <p><b>Condition:</b> 1) Tunnel MTU value should be configured more than default GRE MTU (1476) under the GRE tunnel.<br/>2) Save the configuration and reload the system.</p>                                                                                                                                                                                                                                                                                                                                         |                                                        |
| <p><b>Workaround:</b> Avoid setting the tunnel MTU to more than the default GRE MTU</p>                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                        |

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| <b>Defect ID:</b> DEFECT000599909                                                                                        | <b>Technical Severity:</b> Medium               |
| <b>Reason Code:</b> Design Limitation                                                                                    | <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 |
| <p><b>Symptom:</b> CFP2 100G port flaps several times on disable/enable of interface with UDLD configuration.</p>        |                                                 |
| <p><b>Condition:</b> Disable/enable the interface from link partner (with UDLD configured on both ends of the link).</p> |                                                 |

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| <b>Defect ID:</b> DEFECT000600401                                                                                                                                                | <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> MPLS                               |
| <b>Reported In Release:</b> NI 05.6.00                                                                                                                                           | <b>Technology:</b> MPLS VPLS - Virtual Private LAN Services |
| <p><b>Symptom:</b> When MCT CCP / VPLS goes up through chassis reload or MGMT module switchover etc, "log error- arguments specified does not match" message pops up always.</p> |                                                             |
| <p><b>Condition:</b> MPLS LSP syslogs raised with wrong arguments</p>                                                                                                            |                                                             |

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| <b>Defect ID:</b> DEFECT000600587                                                                                                                                                                                                                | <b>Technical Severity:</b> Critical |
| <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 06.0.00                                                                                                                                                                                                           | <b>Technology:</b> OpenFlow         |
| <p><b>Symptom:</b> Device/switch may reload due to an exception in SSL task while handling a bursts of Openflow msgs.</p>                                                                                                                        |                                     |
| <p><b>Condition:</b> Under heavy Openflow messages from Controller, the device/switch SSL connection to the Openflow controller may timeout, and the session may become invalid resulting in an invalid access causing the device to reload.</p> |                                     |
| <p><b>Workaround:</b> Reduce the rate of Openflow messages coming into the device/switch.</p>                                                                                                                                                    |                                     |

**Recovery:** Reload the device/switch, if auto-reload is not enabled.

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| <b>Defect ID:</b> DEFECT000602339                                                                                                                                                        | <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> Security     |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                   | <b>Technology:</b> SSH - Secure Shell |
| <b>Symptom:</b> The device might suffer a reload while uploading a zero size file.                                                                                                       |                                       |
| <b>Condition:</b> When a zero length file is given as the file to be uploading for either SSL client certificate or private key, the device might suffer a reload due to invalid access. |                                       |
| <b>Workaround:</b> Do not give a zero length file as the file to be uploaded for either SSL client certificate or private key file.                                                      |                                       |
| <b>Recovery:</b> Reload the device, if auto-reload is disabled.                                                                                                                          |                                       |

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| <b>Defect ID:</b> DEFECT000603089                                                                                                                                                                                                                                                         | <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> Security                |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                    | <b>Technology:</b> MAC Port-based Authentication |
| <b>Symptom:</b> On a CES/CER device, traffic from non-PMS port is unicasted to PMS port and traffic from PMS port is flooded to all ports (both PMS and non-PMS) of the associated VLAN.                                                                                                  |                                                  |
| <b>Condition:</b> This may happen when <ol style="list-style-type: none"><li>1. Continuous bi-directional traffic is flowing towards PMS enabled port so that traffic is unicasted.</li><li>2. The same traffic stream is also received on the non-PMS port of the same device.</li></ol> |                                                  |
| Note: This issue is applicable only for CES/CER platform                                                                                                                                                                                                                                  |                                                  |

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| <b>Defect ID:</b> DEFECT000603774                                                                                                                                                                         | <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> IP Multicast     |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                                                                                    | <b>Technology:</b> IPv6 Multicast Routing |
| <b>Symptom:</b> Multicast data traffic loss can happen for few IPV6 streams in a scaled multi-dimensional traffic on CES/CER device.                                                                      |                                           |
| <b>Condition:</b> With multiple reload and flapping of the port continuously and having scaled multidimensional traffic can lead to the traffic loss for some of the multicast stream for CES/CER device. |                                           |
| <b>Workaround:</b> Avoid continuous reloading and flapping of ports for scaled traffic flow on CES/CER for multi-dimensional topology and traffics.                                                       |                                           |
| <b>Recovery:</b> Clearing the affected mcache entry can help in recovering the traffic loss for affected stream.                                                                                          |                                           |

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| <b>Defect ID:</b> DEFECT000603798                                                                                                                                                                                                                                                                     | <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> Monitoring    |
| <b>Reported In Release:</b> NI 05.8.00                                                                                                                                                                                                                                                                | <b>Technology:</b> Hardware Monitoring |
| <b>Symptom:</b> "show media" command output shows "snSwIfInfoGigType" value as unknown for an optic in the slot.                                                                                                                                                                                      |                                        |
| <b>Condition:</b> Performing below steps can put system into this state: <ol style="list-style-type: none"><li>1. Simultaneous (atleast 3) SNMP polling for optics related SNMP tables.</li><li>2. Disable all the ports in the Linecard module</li><li>3. Power cycle the Linecard module.</li></ol> |                                        |
| <b>Recovery:</b> Need to issue "show media" command in the corresponding Linecard module console.                                                                                                                                                                                                     |                                        |

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| <b>Defect ID:</b> DEFECT000605003 | <b>Technical Severity:</b> Medium |
| <b>Reason Code:</b> Will Not Fix  | <b>Probability:</b> High          |

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| <b>Product:</b> Brocade NetIron OS                                                               | <b>Technology Group:</b> MPLS                     |
| <b>Reported In Release:</b> NI 06.0.00                                                           | <b>Technology:</b> MPLS VLL - Virtual Leased Line |
| <b>Symptom:</b> Unexpected LP reload with MCT VPLS/VLL configuration.                            |                                                   |
| <b>Condition:</b> Neighbor router reload with MCT VPLS/VLL configuration may trigger this issue. |                                                   |

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| <b>Defect ID:</b> DEFECT000623845                                                                                                                                                                                                                   | <b>Technical Severity:</b> Critical    |
| <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> Linecard gets into rolling reboot when "sysmon spi crc-errors action reset-linecard" is enabled along with mirroring on one or more of its ports.                                                                                   |                                        |
| <b>Condition:</b> The issue is seen when both mirroring (on one or more ports) and 'sysmon spi crc-errors action reset-linecard' are enabled.<br>It is applicable to 1Gx48 and 10Gx8 modules and software versions NI 5.6.00hb and NI 5.6.00j only. |                                        |

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| <b>Defect ID:</b> DEFECT000623981                                                                                     | <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> Layer 3 Routing/Network Layer |
| <b>Reported In Release:</b> NI 05.6.00                                                                                | <b>Technology:</b> ARP - Address Resolution Protocol   |
| <b>Symptom:</b> Directly connected host is not reachable from the upstream device.                                    |                                                        |
| <b>Condition:</b> On CES/CER, when LPM NH recovery happened for host routes and when the default route has ECMP path. |                                                        |

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| <b>Defect ID:</b> DEFECT000624821                                                                                                                                                                                                                                                                                                                                                                             | <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 05.7.00                                                                                                                                                                                                                                                                                                                                                                        | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> RSVP component in MPLS hits a process exception when trying to FRR failover an LSP to its backup. Process exception for MPLS will result in reset of router's Management Module (MM) with eventual fail over to the standby MM if available. RSVP data traffic forwarding will suspend until standby MM is fully up (in dual MM case) or the MM resets and comes back up (in single MM case). |                                             |
| <b>Condition:</b> For a Facility FRR LSP, when fault is detected on an unprotected link on the LSP's path, it will result in Fast Reroute at an upstream node. But since the failed link was not protected, Fast Reroute will not succeed and will result in an inconsistent state for the LSP that eventually leads to a process exception for MPLS/RSVP.                                                    |                                             |

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| <b>Defect ID:</b> DEFECT000626687                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technical Severity:</b> High                    |
| <b>Reason Code:</b> Already Fixed in Release                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <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> Line card module may unexpectedly reload with the following stack trace:-<br><br>Possible Stack Trace (function call return address list)<br>20d9c878: clusterlp_catchall_program_timer(pc)<br>20d97260: clusterlp_ipc_cluster_set(lr)<br>20d97260: clusterlp_ipc_cluster_set<br>20c1a25c: ipc_multi_module_handler<br>207f378c: lp_assist_ipc_request_send<br>20c1c7a0: ipc_process_messages<br>20bcad68: ipc_process_rel_msg<br>20c1cf88: ipc_receive_packet<br>20036ce4: ge_process_ipc_data_msg |                                                    |

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| 207f4814: lp_ipc_task<br>00040158: sys_end_task            |
| <b>Condition:</b> This issue is seen during hitless-reload |

## Known issues R06.2.00

This section lists open software defects with Critical, High, and Medium Technical Severity as of 09/22/2017 in NetIron 06.2.00.

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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 Linecard 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 Linecard module                                                                            |                                                                        |

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| <b>Defect ID:</b> DEFECT000602148                                                                                                                                                                  |                                                 |
| <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 06.0.00                                                                                                                                                             | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> When Local CCEP goes DOWN and comes UP on MCT cluster device, BFD session with the MCT client devices can move to DOWN state and the session do not move to UP state again.        |                                                 |
| <b>Condition:</b> Condition:<br>BFD configured on MCT cluster device for static routes.<br>Trigger:<br>When Local CCEP goes DOWN and comes UP again on MCT cluster device, this issue could occur. |                                                 |
| <b>Recovery:</b> execute "clear bfd neighbors x.x.x.x" on the device where this issue is observed                                                                                                  |                                                 |

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| <b>Defect ID:</b> DEFECT000605799                                                                                                           |                                                         |
| <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 06.1.00                                                                                                      | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Momentary traffic loss will be seen when device switch-over from active MP to standby MP.                                   |                                                         |
| <b>Condition:</b> During MP switch-over, hardware reprogramming of some of the existing multicast entries can cause momentary traffic loss. |                                                         |

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| <b>Defect ID:</b> DEFECT000611236 |                            |
| <b>Technical Severity:</b> High   | <b>Probability:</b> Medium |

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| <b>Product:</b> Brocade NetIron OS                                                                                                             | <b>Technology Group:</b> MPLS   |
| <b>Reported In Release:</b> NI 06.0.00                                                                                                         | <b>Technology:</b> BGP/MPLS VPN |
| <b>Symptom:</b> L3VPN/VRF traffic is not forwarded.                                                                                            |                                 |
| <b>Condition:</b> Change primary port of the LAG coupled with VRF config change on primary/secondary lag members.                              |                                 |
| <b>Workaround:</b> If the LAG deploy/undeploy & add/del of member ports to LAG is as per Brocade Config Guide then the issue will not be seen. |                                 |

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| <b>Defect ID:</b> DEFECT000622581                                                                                                                                                                    |                                                               |
| <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 06.1.00                                                                                                                                                               | <b>Technology:</b> PIM6 - IPv6 Protocol-Independent Multicast |
| <b>Symptom:</b> After reload, traffic flow for some groups gets delayed until the PIM mcache is populated. This can take a maximum of 125s or the IGMP query interval time configured.               |                                                               |
| <b>Condition:</b> This can happen on the PIM router receiving the IGMP report when it is not the RP in the PIM network and IGMP reports are received before the RPF path towards the RP is available |                                                               |

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| <b>Defect ID:</b> DEFECT000623241                                                   |                                                |
| <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 06.1.00                                              | <b>Technology:</b> NTP - Network Time Protocol |
| <b>Symptom:</b> CES/R does not synchronize time with NTP broadcast server.          |                                                |
| <b>Condition:</b> NTP broadcast client configuration on default or non default VRF. |                                                |

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| <b>Defect ID:</b> DEFECT000623781                                                                          |                                                |
| <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> ingress packets could be dropped when allow-all-vlan pbr is configured                     |                                                |
| <b>Condition:</b> ingress packets could be dropped when allow-all-vlan pbr is configured on a 4x40 module. |                                                |

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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 |                                                               |



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| <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> DEFECT000631492                                                             |                                                              |
| <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> (*, G) and (S, G) entries may not be removed from IGMP snooping VLAN database |                                                              |
| <b>Condition:</b> IGMP leave message received from the last receiver port                     |                                                              |

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| <b>Defect ID:</b> DEFECT000631748                                                                                                                                                                                      |                                                         |
| <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> PIM Multicast traffic may not be forwarded                                                                                                                                                             |                                                         |
| <b>Condition:</b> 1. Upstream interface is configured as PIM dense mode and Downstream interface is configured as PIM sparse mode.<br>2. Upstream interface PIM mode is changed from PIM dense mode to PIM sparse mode |                                                         |
| <b>Workaround:</b> It is recommended to configure same PIM mode on the both Upstream and Downstream nodes.                                                                                                             |                                                         |
| <b>Recovery:</b> Clear the PIM mcache entries by "clear ip pim mcache" command.                                                                                                                                        |                                                         |

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| <b>Defect ID:</b> DEFECT000632633                                                                                                                          |                                                               |
| <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> IPv6 multicast traffic dropped on scaled system                                                                                            |                                                               |
| <b>Condition:</b> The cam profiling is configured as "multi-service-6"<br>Card type is NI-MLX-10Gx8-M<br>IPV6 multicast CAM size is allocated more than 4k |                                                               |

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| <b>Defect ID:</b> DEFECT000633774                                                                  |                                                        |
| <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> Standby Management Module may unexpectedly reload with the following stack trace:- |                                                        |

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| Possible Stack Trace (function call return address list)<br>20ec94d4: bgp_check_for_fwd_address(pc)<br>20ec93ec: bgp_check_for_fwd_address(lr)<br>20efbd18: bgp_RIB_in_delete_route<br>20f7952c: bgp_check_for_aggrgation<br>20effd40: bgp_remove_route_advertisement<br>20efbdf4: bgp_RIB_in_delete_route<br>20efda08: bgp_vrf_RIB_in_delete_all_self_nlr<br>20eb4e88: bgp_clear_all_vrf_neighbors<br>20f57744: bgp_clear_neighbor_itc_request_callback<br>20b14584: itc_process_msgs_internal<br>20b14a24: itc_process_msgs<br>20f73ed8: bgp_task<br>00005e18: sys_end_task |
| <b>Condition:</b> Execution of "clear ip bgp neighbor all" command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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| <b>Defect ID:</b> DEFECT000634646                                                                                                                                                      |                                             |
| <b>Technical Severity:</b> High                                                                                                                                                        | <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> After flapping loopback interface. The system may take a long time to stabilise and cause protocols to flap.                                                           |                                             |
| <b>Condition:</b> On a scaled system flapping the loopback interface may result in protocols flapping multiple times. It may take long time for the system and protocols to stabilise. |                                             |

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| <b>Defect ID:</b> DEFECT000636007                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |
| <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> 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.<br><br>OR<br><br>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> DEFECT000638593 |                         |
| <b>Technical Severity:</b> High   | <b>Probability:</b> Low |

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| <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> CER may unexpectedly reload with the following stack trace<br><br>Possible stack trace:-<br>0020c0a4: (pc)<br>20378fec: process_dy_change_packet(lr)<br>203ae4b8: ipc_multi_module_handler<br>203b0a94: ipc_process_messages<br>203b1254: ipc_receive_packet<br>203abb10: ge_process_ipc_data_msg<br>203abe98: ge_process_ipc_msg<br>200bb6ac: metro_sys_loop<br>200b1088: main<br>00040158: sys_end_task |                                                         |
| <b>Condition:</b> It is rarely observed with 6k IGMP groups                                                                                                                                                                                                                                                                                                                                                               |                                                         |

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| <b>Defect ID:</b> DEFECT000638912                                            |                                                         |
| <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 05.8.00                                       | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> IPV4 multicast traffic drop may be observed in CER           |                                                         |
| <b>Condition:</b> PIM mcache entries reached more than supported range of 8k |                                                         |

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| <b>Defect ID:</b> DEFECT000642455                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |
| <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> Standby Management Module may unexpectedly reload with the following stack trace:-<br><br>Possible Stack Trace (function call return address list)<br>203afea4: nht_get_specific_index_from_pool(pc)<br>203b31fc: nht_create_new_entry_standby(lr)<br>203b31fc: nht_create_new_entry_standby<br>203b3d38: nht_standby_mp_update_entry<br>203b56a4: nht_standby_mp_process_dy_messages<br>2033a738: process_dy_change_packet<br>2032192c: ipc_process_messages<br>20322600: ipc_receive_packet<br>20f3cc70: sw_receive_packet<br>20f3d778: mp_rx_main<br>00005e18: sys_end_task |                                                         |
| <b>Condition:</b> It is observed rarely on a MLX/XMR device with OSPF, VRRP or MPLS combination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |

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| <b>Defect ID:</b> DEFECT000642613                                                |                                                                          |
| <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> VRRPv3 - Virtual Router Redundancy Protocol Version 3 |
| <b>Symptom:</b> High CPU usage causing dual master VRRP and VRRPv3 dual master . |                                                                          |
| <b>Condition:</b> Number of ND6 entries is greater than 12000 on CES/CER         |                                                                          |

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| <b>Defect ID:</b> DEFECT000643261                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                          |
| <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 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Technology:</b> IPv4 Multicast VLAN Traffic Reduction |
| <b>Symptom:</b> A host receives multicast traffic for an IGMP group for which it has not sent an IGMP JOIN message.                                                                                                                                                                                                                                                                                                                                                                                                      |                                                          |
| <b>Condition:</b> A PC Host receives multicast traffic, even if it has not sent an IGMP Join message for the multicast group.<br><br>Conditions:<br>a. An active receiver on one of the ports of vlan.(with IGMP snooping enabled). Other ports of vlan do not receive multicast traffic.<br>b. Disable IGMP snooping on the vlan. MC traffic resumes(due to default flooding behavior on vlan).<br>c. Re-enable the IGMP snooping configuration.<br>d. All the ports of vlan continue to receive the multicast traffic. |                                                          |

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| <b>Defect ID:</b> DEFECT000643881                                               |                                                         |
| <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> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> Inconsistent behavior may be observed between OSPFV2 and OSPFV3 |                                                         |
| <b>Condition:</b> Configuration of 'max-metric' command                         |                                                         |

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| <b>Defect ID:</b> DEFECT000644374                                                 |                                                         |
| <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 06.0.00                                            | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Multicast traffic may drop as source port suppression on transmit |                                                         |
| <b>Condition:</b> It is rarely observed on MCT client                             |                                                         |

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| <b>Defect ID:</b> DEFECT000644574 |
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| <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> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> OSPF neighbors may show all ECMP paths after upgraded MLXe fails setting a forwarding address in AS External LSA.                                                                                                                        |                                                         |
| <b>Condition:</b> It is rarely observed with the following steps:-<br>(1) OSPFv2 is enabled on the device<br>(2) static routes are configured with gateway, which is reachable and redistributed into OSPFv2<br>(3) Repeated image upgrade and downgrade |                                                         |
| <b>Recovery:</b> Flapping the interface towards the gateway will resolve the issue.                                                                                                                                                                      |                                                         |

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| <b>Defect ID:</b> DEFECT000644706                                                                                                          |                                                               |
| <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 06.0.00                                                                                                     | <b>Technology:</b> PIM6 - IPv6 Protocol-Independent Multicast |
| <b>Symptom:</b> Customer can notice traffic loss for IPv6 multicast traffic.                                                               |                                                               |
| <b>Condition:</b> When both IPv4 and IPv6 multicast traffic is running and IPv6 multicast routes are cleared using "clear ipv6 pim cache". |                                                               |

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| <b>Defect ID:</b> DEFECT000645700                                                              |                                     |
| <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> Sysmon           |
| <b>Symptom:</b> Execution of "sysmon sfm walk status" command may not return to command prompt |                                     |
| <b>Condition:</b> Execution of "sysmon sfm walk status" from telnet or ssh                     |                                     |
| <b>Workaround:</b> Execute "sysmon sfm walk status" from console session                       |                                     |
| <b>Recovery:</b> A return key will help                                                        |                                     |

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| <b>Defect ID:</b> DEFECT000648325                                                                                                                                                                                                                                                                                                                             |                                                           |
| <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 06.2.00                                                                                                                                                                                                                                                                                                                        | <b>Technology:</b> MACsec - Media Access Control security |
| <b>Symptom:</b> On removal of port security configuration on a port the following error is observed.<br>"ERROR: Delete secure macs before reducing max-macs for port <slot/port>"                                                                                                                                                                             |                                                           |
| <b>Condition:</b> 1) Port security should be enabled on per port with violation deny configuration.<br>2) Global port security should also be enabled.<br>3) Configure a few (more than 2) deny-mac-addresses on per port.<br>4) Global port security should be removed first and then remove the port security on per port using "no port security" command. |                                                           |

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| <b>Defect ID:</b> DEFECT000649337                                                                  |                                           |
| <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 06.2.00                                                             | <b>Technology:</b> IPv4 Multicast Routing |
| <b>Symptom:</b> User may observe drop in the traffic which is getting forwarded on an IPSEC tunnel |                                           |
| <b>Condition:</b> This issue may be seen when failover happens for IPSEC tunnel                    |                                           |

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| <b>Defect ID:</b> DEFECT000649540                                                                                                                                                                                                    |                                 |
| <b>Technical Severity:</b> High                                                                                                                                                                                                      | <b>Probability:</b> Low         |
| <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> Connectivity may be lost for 3 minutes when backup LSP path is down                                                                                                                                                  |                                 |
| <b>Condition:</b> 1.The problematic prefix has to be learned from two different BGP peers.<br>2.Both BGP peers should have equal IGP cost<br>3.Static NULL0 drop route also configured for the next-hop<br>4.Backup LSP path is down |                                 |
| <b>Workaround:</b> Configure route-maps with MED to override the Static NULL0 route                                                                                                                                                  |                                 |

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| <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:-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                              |
| <pre> Possible Stack Trace (function call return address list) 20adcd84: cu_optic_process_cfp_aggregate_optical_mon_parameter(pc) 20ade1e8: cu_get_aggregate_optical_parameter_from_object(lr) 20ade1e8: cu_get_aggregate_optical_parameter_from_object 208a98b4: snIfOpticalMonitoringInfoEntry_get_value 208a9e2c: snIfOpticalMonitoringInfoEntry_next 209642f4: SNMP_Process_Bulk_Redo 20966fb4: SNMP_Continue_function 20967088: process_packet_two 2096751c: process_packet_one 20967868: Process_Rcvd_SNMP_Packet_Async 20965504: Process_Received_SNMP_Packet 209919a4: snmp_receive_message 209943a0: snmp_udp_rcv_callback_common 209944ac: snmp_udp_rcv_callback 20ba0540: itc_process_msgs_internal 20ba09ec: itc_process_msgs 2099101c: snmp_task </pre> |                                                              |

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| 00005e18: sys_end_task                                                                                          |
| <b>Condition:</b> While inserting non-Brocade (Flex Optix) CFP2-QSFP28 adapter on a 2x100G-CFP2 Linecard module |

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| <b>Defect ID:</b> DEFECT000650682                                                                                                                                                                                       |                                                         |
| <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> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> OSPF ECMP route for some of external destinations may not be installed into the routing table of non-translator NSSA ABR.                                                                               |                                                         |
| <b>Condition:</b> (1) Atleast two NSSA ABRs present in the OSPF network<br>(2) About 100 or so external destinations are redistributed into NSSA area by two NSSA ASBRs with FA set to an address within the NSSA area. |                                                         |

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| <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   |
| <b>Symptom:</b> Line card module may unexpectedly reload with the following stack trace:-<br>Possible Stack Trace (function call return address list)<br>20f0839c: fpip_process_pending_packets(pc)<br>20f08398: fpip_process_pending_packets(lr)<br>20f039d0: fpip_update_host_cache_entry<br>20f03b4c: fpip_update_host_cache_in_all_vrf<br>20f19544: arp_process_one_entry_pram_update<br>20d1e178: lp_cam_update_arp_entry_pram<br>20e23fb0: process_one_arp_update_lp<br>20f176ec: process_one_arp_update<br>20f17950: process_arp_dy_messages<br>20bd5818: process_dy_change_packet<br>20c1ca54: ipc_multi_module_handler<br>20c1efc8: ipc_process_messages<br>20c1f7a4: ipc_receive_packet<br>20036ce4: ge_process_ipc_data_msg<br>207f4f20: lp_ipc_task<br>00040158: sys_end_task |                                                        |
| <b>Condition:</b> It is rarely observed during a Line card bootup or a link flap between MCT clusters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                        |

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| <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 |
| <b>Symptom:</b> 2x100G-CFP2 Linecard module may unexpectedly reload with the following stack trace:- |                                                          |

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| Possible Stack Trace (function call return address list)<br>00069064: assert_dobule_free_large_memory(pc)<br>0006905c: assert_dobule_free_large_memory(lr)<br>00069274: free_memory_pool<br>00069918: free_memory<br>00065e80: dev_free_memory<br>00005024: xsyscall<br>2000105c: free<br>21610cb8: bcm_pm_if_cleanup<br>20026928: bcm_82790_uninit<br>209cd328: phy_adapter_removed<br>209b946c: phy_conn_check_existence<br>20a4086c: port_read_physical_existance<br>20a309ec: port_check_port_status<br>20a34900: port_link_status_poll<br>20a34404: port_status_poll<br>200058c0: perform_callback<br>200062c8: timer_timeout<br>00040160: sys_end_entry<br>0005e4a0: suspend<br>0005cf78: dev_sleep<br>00005024: xsyscall<br>207f3af4: main<br>00040158: sys_end_task |
| <b>Condition:</b> While removing a non-Brocade (Flex Optix) CFP2-QSFP28 adapter from the 2x100G-CFP2 Line card module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| <b>Defect ID:</b> DEFECT000652191                                                         |                                                 |
| <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 06.0.00                                                    | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> MAC table synchronization may not be complete for MCT cluster nodes       |                                                 |
| <b>Condition:</b> Line card module goes into a rolling reboot for any known/other reasons |                                                 |

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| <b>Defect ID:</b> DEFECT000652797                                                                                                                                                                                                                                                                                                             |                                     |
| <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 06.2.00                                                                                                                                                                                                                                                                                                        | <b>Technology:</b> sFlow            |
| <b>Symptom:</b> When sFlow is enabled for IPV6 traffic sampling on an interface which is associated with a VE and user defined VRF, the LP CPU usage may go high up to 50%.                                                                                                                                                                   |                                     |
| <b>Condition:</b> When sFlow is enabled on an interface which is associated with a VE and user defined VRF and IPV6 traffic is sampled whose destination is 1+ hops away, the LP CPU usage (for the LP where sampling is taking place) could be considerably high (about 7 times) compared to when the interface is not associated with a VE. |                                     |
| <b>Workaround:</b> LP CPU usage can be reduced by either reducing the sampling frequency (via increasing the 'sampling rate' configuration) or by removing the VE configuration on sFlow forwarding port.                                                                                                                                     |                                     |
| <b>Recovery:</b> Disable sFlow, reconfigure as needed and re-enable sFlow.                                                                                                                                                                                                                                                                    |                                     |



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| <b>Defect ID:</b> DEFECT000653149                                                                                                                                                                                        |                                                    |
| <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 06.2.00                                                                                                                                                                                   | <b>Technology:</b> Software Installation & Upgrade |
| <b>Symptom:</b> After a simple upgrade from NetIron 5.9.00c to 6.2.00, it is possible LP monitor versions will not be copied to the LP modules, causing that LP to be unavailable and going into interactive boot state. |                                                    |
| <b>Condition:</b> Happens during upgrade to NetIron 6.2.00                                                                                                                                                               |                                                    |

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| <b>Defect ID:</b> DEFECT000653338                                           |                                                    |
| <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 05.6.00                                      | <b>Technology:</b> Traffic Queueing and Scheduling |
| <b>Symptom:</b> Traffic may not be forwarded to correct port                |                                                    |
| <b>Condition:</b> It is very rarely observed after Line card module boot up |                                                    |
| <b>Recovery:</b> A Line card module reload will recover from this issue     |                                                    |

## Known issues R06.1.00

This section lists open software defects with Critical, High, and Medium Technical Severity as of 12/10/2016 in R06.1.00.

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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 Linecard 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 Linecard module                                                                            |                                                                        |

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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> DEFECT000600296                                                                                                                               |                              |
| <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> ARP packets are not sent to controller for flows which match on ether type ARP and with action as normal with controller action and mirror port |                              |
| <b>Condition:</b> Issue is seen when the flow does not match on a VLAN.                                                                                         |                              |

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| <b>Defect ID:</b> DEFECT000602148                                                                                                                                                                  |                                                 |
| <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 06.0.00                                                                                                                                                             | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> When Local CCEP goes DOWN and comes UP on MCT cluster device, BFD session with the MCT client devices can move to DOWN state and the session do not move to UP state again.        |                                                 |
| <b>Condition:</b> Condition:<br>BFD configured on MCT cluster device for static routes.<br>Trigger:<br>When Local CCEP goes DOWN and comes UP again on MCT cluster device, this issue could occur. |                                                 |
| <b>Recovery:</b> execute "clear bfd neighbors x.x.x.x" on the device where this issue is observed                                                                                                  |                                                 |

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| <b>Defect ID:</b> DEFECT000602490                                              |                                                         |
| <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> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> Incorrect Advertising router ID is shown in LSA database       |                                                         |
| <b>Condition:</b> OSPFv2 is running with Multi-VRF and Inter-VRF config on CER |                                                         |

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| <b>Defect ID:</b> DEFECT000602530                                                                    |                                              |
| <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 06.1.00                                                               | <b>Technology:</b> Rate Limiting and Shaping |
| <b>Symptom:</b> ARP packets are not rate-limited based on ARP rate-limit policy on 20x10G line card. |                                              |
| <b>Condition:</b> Apply ARP rate limit policy globally after system reload.                          |                                              |
| <b>Workaround:</b> Disable/Enable the ingress physical interface.                                    |                                              |

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| <b>Defect ID:</b> DEFECT000603828                                                                                     |                                                           |
| <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> Very rarely router restart is observed if we issue "clear ipv6 ospf neighborship" in scaled topology. |                                                           |
| <b>Condition:</b> Invoking "clear ipv6 ospf neighborship" multiple times in OSPFv3 scaled topology.                   |                                                           |

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| <b>Defect ID:</b> DEFECT000605799                                                                                                           |                                                         |
| <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 06.1.00                                                                                                      | <b>Technology:</b> PIM - Protocol-Independent Multicast |
| <b>Symptom:</b> Momentary traffic loss will be seen when device switch-over from active MP to standby MP.                                   |                                                         |
| <b>Condition:</b> During MP switch-over, hardware reprogramming of some of the existing multicast entries can cause momentary traffic loss. |                                                         |

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| <b>Defect ID:</b> DEFECT000607620                                                                                                              |                                       |
| <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> SSH - Secure Shell |
| <b>Symptom:</b> In rare condition, system may disconnect SSH sessions unexpectedly due to a malformed header. The root cause is not yet known. |                                       |
| <b>Condition:</b> In rare condition, system may disconnect SSH sessions unexpectedly due to a malformed header.                                |                                       |

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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> 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> DEFECT000608806      |                                                        |
| <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> IPv6 Addressing                     |
| <b>Symptom:</b> Unexpected LP reload   |                                                        |
| <b>Condition:</b> Shortly after reload |                                                        |

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| <b>Defect ID:</b> DEFECT000609198          |                                                         |
| <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> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> Unexpected LP reload.      |                                                         |
| <b>Condition:</b> Flapping OSPF interfaces |                                                         |

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| <b>Defect ID:</b> DEFECT000610574                                                                                                                                                                                                                                                                                                    |                                             |
| <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> Non-CSPF LSP may flap on a route update. One can notice this in the 'show mpls lsp extensive' command which logs the LSP event history. The LSP may remain DOWN until its state is cleaned up for that instance from the network. Traffic loss can be observed during this time if LSP is actively carrying traffic. |                                             |
| <b>Condition:</b> Issue occurs when ALL the below conditions are true:<br>- Adaptive LSP<br>- Non-CSPF<br>- Route update is seen on an LSP path                                                                                                                                                                                      |                                             |
| <b>Workaround:</b> To avoid getting into this issue one can use CSPF LSPs instead if they already have Traffic Engineering configured under MPLS.                                                                                                                                                                                    |                                             |

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| <b>Defect ID:</b> DEFECT000611236                                                                                                              |                                 |
| <b>Technical Severity:</b> High                                                                                                                | <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> BGP/MPLS VPN |
| <b>Symptom:</b> L3VPN/VRF traffic is not forwarded.                                                                                            |                                 |
| <b>Condition:</b> Change primary port of the LAG coupled with VRF config change on primary/secondary lag members.                              |                                 |
| <b>Workaround:</b> If the LAG deploy/undeploy & add/del of member ports to LAG is as per Brocade Config Guide then the issue will not be seen. |                                 |

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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> 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> DEFECT000614649                                                                                                                                                    |                                                 |
| <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> Multicast and Broadcast traffic may be dropped for up to 5sec during reloading or MM switchover on a MCT peer without linked CCEP                                    |                                                 |
| <b>Condition:</b> Seen when performing a reload or management module switchover on an MCT peer with all edge ports including CCEP ports shutdown and only ICL and Spoke PW ports UP. |                                                 |

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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 <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> 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                          |                                                         |
| <b>Recovery:</b> Apply multicast boundary for the group on both incoming and outgoing PIM-DM interfaces                            |                                                         |

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| <b>Defect ID:</b> DEFECT000617414                                                                                                                             |                                                    |
| <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> Software Installation & Upgrade |
| <b>Symptom:</b> During bootup, occasionally the user may encounter the following error related to flash.<br><br>code_flash_block_erase: timeout, f91c0000: 80 |                                                    |
| <b>Condition:</b> The error may occur during bootup without any user intervention. Bootup continues and system comes up as usual.                             |                                                    |



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| <b>Defect ID:</b> DEFECT000617839                                                                                                                                                                                                                                                                              |                                                                        |
| <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> In MLX32/MLXe32 chassis,<br>1. card in any upper slot (17 to 32) of the chassis will display as " Invalid Module " in "show module" and the card will be in boot state<br>2. The card in the corresponding lower slot( 1 to 16) may be rebooted continuously .                                 |                                                                        |
| <b>Condition:</b> 1. Issue occurs in MLX32/MLXe32<br>2. when any line card with incorrect PBIF FPGA version (of type 8x10G, 2x100G-SFP2, 2x100G-X, 4x40G, 20x10G, 4x10G-IPSEC) is inserted in upper slot(17 to 32) of the chassis, the line card in the corresponding lower slot will go for continuous reboot |                                                                        |
| <b>Recovery:</b> Replace bad line card with good one                                                                                                                                                                                                                                                           |                                                                        |

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| <b>Defect ID:</b> DEFECT000619517                                                             |                                                              |
| <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 06.1.00                                                        | <b>Technology:</b> IGMP - Internet Group Management Protocol |
| <b>Symptom:</b> IGMP group version is not displayed correctly in "show ip igmp group" command |                                                              |
| <b>Condition:</b> When IGMP version is changed from 3 to 2 or from 2 to 3                     |                                                              |

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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> DEFECT000622581                                                                                                                                                                    |                                                               |
| <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 06.1.00                                                                                                                                                               | <b>Technology:</b> PIM6 - IPv6 Protocol-Independent Multicast |
| <b>Symptom:</b> After reload, traffic flow for some groups gets delayed until the PIM mcache is populated. This can take a maximum of 125s or the IGMP query interval time configured.               |                                                               |
| <b>Condition:</b> This can happen on the PIM router receiving the IGMP report when it is not the RP in the PIM network and IGMP reports are received before the RPF path towards the RP is available |                                                               |

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| <b>Defect ID:</b> DEFECT000622734                                                                                                                                                                   |                                                 |
| <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> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> LP-IPC task on LP module exception is happening after MM switch-over in MCT topology.                                                                                               |                                                 |
| <b>Condition:</b> 1) MCT cluster should be deployed.<br>2) VPLS instances has to be configured about 1000.<br>3)VPLS peers has to be configured.<br>4)MM switch-over has to be given in Active MCT. |                                                 |





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| <b>Defect ID:</b> DEFECT000623241                                                   |                                                |
| <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 06.1.00                                              | <b>Technology:</b> NTP - Network Time Protocol |
| <b>Symptom:</b> CES/R does not synchronize time with NTP broadcast server.          |                                                |
| <b>Condition:</b> NTP broadcast client configuration on default or non-default VRF. |                                                |

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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> Occasionally the first few packets across MCT cluster towards the host maybe dropped and the subsequent packets get forwarded. |                                                        |
| <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.  |                                                        |
| This is seen across all releases.                                                                                                              |                                                        |

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| <b>Defect ID:</b> DEFECT000624021                                                                                              |                                                |
| <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> IPv6 rACL doesn't filter OSPF packets when the number of OSPF sessions on the same interface is more than 356. |                                                |
| <b>Condition:</b> When user configures more than 356 OSPF neighbors on the same interface.                                     |                                                |

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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 |
| <b>Symptom:</b> VE Interface MAC is not used as source MAC for packets routed by VPLS-VE interface.                                                  |                                                             |
| <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. |                                                             |

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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> DEFECT000624450      |                                     |
| <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        |

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| <b>Symptom:</b> Errors may be incorrectly returned indicating that the command has failed |
| <b>Condition:</b> When assigning noncontiguous ports to a GTP profile                     |

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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> DEFECT000624579                                                                                                                                     |                                             |
| <b>Technical Severity:</b> High                                                                                                                                       | <b>Probability:</b> Low                     |
| <b>Product:</b> Brocade NetIron OS                                                                                                                                    | <b>Technology Group:</b> MPLS               |
| <b>Reported In Release:</b> NI 06.1.00                                                                                                                                | <b>Technology:</b> MPLS Traffic Engineering |
| <b>Symptom:</b> Some LSPs go down on transit DUTs shortly after a reservable BW reduction on the protected path and data traffic loss is observed.                    |                                             |
| <b>Condition:</b> The issue gets introduced on reducing the interface reservable bandwidth such that some of the LSPs get preempted and/or failover to their backups. |                                             |
| <b>Recovery:</b> Re-signal affected LSPs from head-end router ("clear mpls lsp ...")                                                                                  |                                             |

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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 switches over to the standby Management Module if available). The following stack trace will be seen: -                                                                                                                                                                                |                                           |
| <pre> Possible Stack Trace (function call return address list) 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> DEFECT000625655                                                                                                                                                                                 |                                                           |
| <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> OSPF adjacency proceeded to state FULL on one end and stuck at LOADING on other end of a link when network type mismatched. The adjacency need not be allowed to proceed to EXSTART in this case. |                                                           |
| <b>Condition:</b> Mismatched network type configured on both ends of a link - one end of the ospf link is set to type broadcast, and other end is set to point to point.                                          |                                                           |
| <b>Workaround:</b> Ensure that both ends of link have same like type set (broadcast or p2p)                                                                                                                       |                                                           |
| <b>Recovery:</b> Change the configuration on one end of the link to match the link type of the other end.                                                                                                         |                                                           |

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| <b>Defect ID:</b> DEFECT000625732                                                                                                                                                                                                                             |                              |
| <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 06.0.00                                                                                                                                                                                                                        | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> Traffic is not sent to controller even though packets hit the OpenFlow rule and gets mirrored.                                                                                                                                                |                              |
| <b>Condition:</b> Enable OpenFlow on the traffic ingress interface.<br>Push an OpenFlow rule with action mirror port and send to controller.<br>Witness the packet count for send to controller in output of "show openflow flow" is not getting incremented. |                              |

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| <b>Defect ID:</b> DEFECT000625742                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |
| <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 reload unexpectedly with the following stack trace: -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 |
| <p>Possible Stack Trace (function call return address list)</p> <pre> 202e6cb0: parser(pc) 2035caa8: parse_input(lr) 20a80280: handle_new_line_from_telnet_client 20a80bdc: telnet_application_control 20a83fe8: telnet_receive_packet 20a82a14: telnet_socket_control 20a876b4: telnet_receive_data_ready 20a876f8: telnet_tcp_receive_data_ready_callback 20b92c64: itc_process_msgs_internal 20b9350c: itc_send_request_and_wait_internal 20b93ab0: itc_send_request_and_wait 20ab3cd4: lp_cli_show_value 20c51b10: cu_show_temperature_lp_all 2044d7c4: show_temperature_all_slot 2003456c: show_tech_support 203598b4: timer_callback_wrapper 20b92c64: itc_process_msgs_internal 20b9350c: itc_send_request_and_wait_internal 20b93ab0: itc_send_request_and_wait 20ab3cd4: lp_cli_show_value 20c51b10: cu_show_temperature_lp_all 20bfb724: cu_get_lp_temperature 2044d918: show_temperature_all_slot 2003456c: show_tech_support 2035 </pre> |                                                 |
| <b>Condition:</b> In a telnet session, when pressing "Enter" key continuously during the "show tech-support" command execution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                 |

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| <b>Defect ID:</b> DEFECT000626266                                                                                |                                                         |
| <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> OSPF - IPv4 Open Shortest Path First |
| <b>Symptom:</b> There will be higher CPU utilization after receiving around or more than 500 OSPFv2 Type-5 LSAs. |                                                         |
| <b>Condition:</b> Running OSPFv2 protocol with VRF-lite.                                                         |                                                         |

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| <b>Defect ID:</b> DEFECT000626429                                                                                                   |                                                        |
| <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> Multi-VRF                           |
| <b>Symptom:</b> IPv6 traffic received on non-default VRF doesn't get rate-limited as per the configured rate-limiting on interface. |                                                        |
| <b>Condition:</b> IPv6 ACL based rate-limiting configured on interface for non-default VRF                                          |                                                        |

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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> DEFECT000627353                                                                                                                                                                           |                              |
| <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 512 OpenFlow rules or more are configured having the same output port as logical MPLS port (LSP), the LP software is getting reloaded unexpectedly, if the LSP goes down and comes up. |                              |
| <b>Condition:</b> Enable OpenFlow on LSP.<br>Configure 512 flows or more with output as OpenFlow logical port (LSP)<br>Make the LSP go down by disabling the mpls-interface.                                |                              |

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| <b>Defect ID:</b> DEFECT000627906                                                                                                                         |                                                          |
| <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 06.1.00                                                                                                                    | <b>Technology:</b> IPv6 Multicast VLAN Traffic Reduction |
| <b>Symptom:</b> MLD snooping switch connected directly to receivers may see high CPU utilization on ingress line-card due to IPv6 multicast data traffic. |                                                          |
| <b>Condition:</b> High CPU utilization on ingress line-card happens due to IPv6 multicast snooping entries not created in MP for some reason.             |                                                          |

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| <b>Defect ID:</b> DEFECT000628596                                                                                                     |                                                 |
| <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> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> On CES/CER, MCT node forwards multicast traffic out of the same MCT lag from which the MCT peer receives the traffic. |                                                 |
| <b>Condition:</b> Add a member-VLAN to the MCT cluster                                                                                |                                                 |

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| <b>Defect ID:</b> DEFECT000629528                                                                                                                  |                              |
| <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 06.1.00                                                                                                             | <b>Technology:</b> OpenFlow  |
| <b>Symptom:</b> Traffic loss when traffic going on OpenFlow Logical port group which contain LSP tunnels, configured on both physical port and lag |                              |
| <b>Condition:</b> Egress port is OpenFlow Logical Port Group contains LSP tunnels going on Physical ports and LAG.                                 |                              |
| <b>Workaround:</b> Make LSP tunnels either going to Physical ports or LAG ports.                                                                   |                              |

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| <b>Defect ID:</b> DEFECT000626014                                                                                                                                                                                 |                                                 |
| <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 05.6.00                                                                                                                                                                            | <b>Technology:</b> MCT - Multi-Chassis Trunking |
| <b>Symptom:</b> Multicast and Broadcast data traffic may be dropped for up to 4-5sec when CCP goes down by reloading or MM switchover on a MCT peer.                                                              |                                                 |
| <b>Condition:</b> In a MCT network setup, CCP down event due to <ul style="list-style-type: none"> <li>- MCT peer reload or</li> <li>- MCT peer management module switchover</li> </ul> will cause this condition |                                                 |