

31 August 2018



NetIron OS 06.3.00 for ExtremeRouting MLX Series Devices

Release Notes 1.0

© 2018, Extreme Networks, Inc. All Rights Reserved.

Extreme Networks and the Extreme Networks logo are trademarks or registered trademarks of Extreme Networks, Inc. in the United States and/or other countries. All other names are the property of their respective owners. For additional information on Extreme Networks Trademarks please see www.extremenetworks.com/company/legal/trademarks. Specifications and product availability are subject to change without notice.

Contents

Document history	5
Preface	6
Contacting Extreme Technical Support.....	6
Extreme resources	6
Document feedback.....	7
Overview	8
Behavior changes	9
Behavior changes in release NetIron 06.3.00	9
Software Features.....	10
New software features	10
CLI commands.....	11
New CLI commands NetIron 06.3.00	11
MIBs and messages.....	12
MIBs	12
Messages.....	12
RFCs and standards.....	13
Hardware support.....	14
Supported devices	14
Supported devices for Network Packet Broker R06.3.00	15
Supported modules.....	16
Supported power supplies	22
Supported optics.....	22
Software upgrade and downgrade	23
Image file names.....	23
Migration path	31
Upgrade and downgrade considerations.....	31
Limitations and restrictions	36
Important notes.....	36
Defects	38
TSBs—Critical issues to consider prior to installing this release	38
Closed with code changes NI06.3.00	39
Closed without code changes NI06.3.00.....	71

Known issues NI06.3.00 77

Document history

Version	Summary of changes	Publication date
1.0	Initial release	08/31/2018

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
- Phone: 1-800-998-2408 (toll-free in U.S. and Canada) or +1 408-579-2826. For the support phone number in your country, visit: www.extremenetworks.com/support/contact.
- 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.
- The Hub - A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.
- 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

Extreme resources

Visit the Extreme website to locate related documentation for your product and additional Extreme resources.

White papers, data sheets, and the most recent versions of Extreme software and hardware manuals are available at www.extremenetworks.com. Product documentation for all supported releases is available to registered users at <https://www.extremenetworks.com/support/documentation/>.

Document feedback

Quality is our first concern at Extreme, and we have made every effort to ensure the accuracy and completeness of this document. However, if you find an error or an omission, or you think that a topic needs further development, we want to hear from you.

You can provide feedback in two ways:

- Use our short online feedback form at <https://www.extremenetworks.com/documentation-feedback/>
- Email us at documentation@extremenetworks.com

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

Overview

NetIron OS Release 06.3.00 enhances the capabilities of ExtremeRouting MLX Series, and ExtremeRouting CER 2000 Series in the following areas:

- * BGP services,
- * Network Packet Broker functionality

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 06.3.00

There are no behavior changes in release NetIron 06.3.00.

Software Features

New software features

The following software features are new for NetIron 06.3.00 release.

Management features and enhancements

- **SSH server management:** This feature configures the SSH server to allow incoming SSH connection requests from ports that belong to any VRF and from the out-of-band management port when the management VRF is configured.
- **Increase maximum telnet session number from 5 to 10:** The maximum telnet session is increased from 5 to 10.

Security

- **Regular expression support in RADIUS command authorization:** The Extreme-specific RADIUS attribute `foundry-command-string` now supports specifying a range of data for a CLI command.

IP Routing

- **BGP Large Communities:** RFC8092 BGP Large Communities attribute is supported. All routes with this attribute belong to the communities specified in the attribute.
- **Increase number of loopback interfaces in NetIron to 1024:** The number of supported loopback interfaces is increased to 1024.

Monitoring

- Beginning with Extreme NetIron Release 06.3.00, the Network Processor (NP) error monitoring and recovery feature is supported on Extreme NetIron 8x10G, 2x100G, 20x10G, 2x100G-CFP2 and 4x10G-IPSEC line card modules for ExtremeRouting XMR/MLX Series.

Network Packet Broker

- The maximum TVF LAG FID group size (`system-max tvf-lag-lb-fid-group`) is increased to 32.

CLI commands

New CLI commands NetIron 06.3.00

- ip large-community-list extended
- ip large-community-list standard
- ip ssh include-all-vrf
- match large-community-list
- set large-community
- set large-community-list
- system-max loopback-interface
- show default values
- show ip bgp routes large-community
- show ip bgp routes large-community-access-list
- show ip bgp routes large-community-regex
- show ip bgp routes detail large-community
- show ip bgp routes detail large-community-access-list
- show ip bgp routes detail large-community-regex

Modified commands

- ip ssh strict-management-vrf
- neighbor send-community
- show ip ssh config
- show who
- system-max tvf-lag-lb-fid-group

Deprecated commands

There are no deprecated commands in this release.

MIBs and messages

MIBs

New MIB Objects

No MIB objects were introduced in release NetIron 06.3.00.

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

The following new RFC is supported in this release.

- RFC8092 -- BGP Large Communities Attribute

Hardware support

Supported devices

The following devices are supported in this release:

NOTE: Beginning with NetIron OS 06.3.00 and later, the ExtremeSwitching CES 2000 Series devices are not supported. Refer to the [End of Sale and End of Support](#) page for additional information.

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

Supported devices for Network Packet Broker R06.3.00

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 XMR/MLX AC
NI-X-DCPWR-A	1200W power supply.	4-Slot XMR/MLX DC
BR-MLXE-32-ACPWR-3000	AC 3000W power supply.	32-slot MLXe/XMR/MLX
BR-MLXE-32-DCPWR-3000	DC 3000W power supply.	32-slot MLXe/XMR/MLX
NIBI-32-ACPWR-A	AC 2400W power supply.	32-Slot MLXe/XMR/MLX
NIBI-32-DCPWR	2400W power supply.	32-Slot 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>.

Software upgrade and downgrade

Image file names

Download the following images from www.extremenetworks.com.

NOTE: Beginning with NetIron OS 06.3.00 and later, the ExtremeSwitching CES 2000 Series devices are not supported. Refer to the [End of Sale and End of Support](#) page for additional information.

MLX Series and NetIron XMR 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 R06.3.00 MLX Series/XMR software upgrade

```
# Manifest File for XMR/MLX Release 06.3.00
-NETIRON_IRONWARE_VER XMR-MLXV6.3.00

#=====

-DIRECTORY /Boot/InterfaceModule
xmlprm05900.bin

-DIRECTORY /Boot/ManagementModule
xmprm05900.bin

# Application Images
-DIRECTORY /Combined/FPGA
lpfpga06300.bin

-DIRECTORY /Combined/Application
xm06300.bin

-DIRECTORY /Monitor/InterfaceModule
xmlb06200.bin

-DIRECTORY /Monitor/ManagementModule
xmb06200.bin

-DIRECTORY /Application/ManagementModule
xmr06300.bin

-DIRECTORY /Application/InterfaceModule
xmlp06300.bin
```

```
-DIRECTORY /FPGA/InterfaceModule
pbif4x40_06300.bin 2.11
pbif8x10_06300.bin 2.24
pbifmrj_06300.bin 4.04
pbifsp2_06300.bin 4.02
statsmrj_06300.bin 0.09
xgmacsp2_06300.bin 0.17
xpp2x100_06300.bin 1.06
xpp4x40_06300.bin 6.20
xpp4x10g3_06300.bin 0.00
xpp8x10_06300.bin 1.10
xppmrj_06300.bin 1.03
xppsp2_06300.bin 1.01
xppxsp2_06300.bin 1.01
pbif-ber-g3_06300.bin 2.11
xpp20x10g3_06300.bin 0.00
xpp2x100g3_06300.bin 0.00
-DIRECTORY /FPGA/ManagementModule
mbridge32_06300.xsvf 36
mbridge_06300.xsvf 37
sbridge_06300.mcs 6
hsbridge_06300.mcs 17
-END_OF_IMAGES
```

```
-DIRECTORY /Signatures
xmlprm05900.sig
xmprm05900.sig
xmlb06200.sig
xmb06200.sig
xmr06300.sig
xmlp06300.sig
lpfpga06300.sig
hsbridge_06300.sig
mbridge_06300.sig
mbridge32_06300.sig
sbridge_06300.sig
pbif4x40_06300.sig
pbif8x10_06300.sig
pbifmrj_06300.sig
pbifsp2_06300.sig
pbif-ber-g3_06300.sig
statsmrj_06300.sig
xgmacsp2_06300.sig
xpp2x100_06300.sig
xpp20x10g3_06300.sig
xpp2x100g3_06300.sig
xpp4x40_06300.sig
xpp4x10g3_06300.sig
xpp8x10_06300.sig
xppmrj_06300.sig
xppsp2_06300.sig
```



```

xppxsp2_06300.sig
xmlprm05900.sha256
xmprm05900.sha256
xmlb06200.sha256
xmb06200.sha256
xmr06300.sha256
xmlp06300.sha256
lpfpga06300.sha256
hsbridge_06300.sha256
mbridge_06300.sha256
mbridge32_06300.sha256
sbridge_06300.sha256
pbif4x40_06300.sha256
pbif8x10_06300.sha256
pbifmrj_06300.sha256
pbifsp2_06300.sha256
pbif-ber-g3_06300.sha256
statsmrj_06300.sha256
xgmacsp2_06300.sha256
xpp2x100_06300.sha256
xpp20x10g3_06300.sha256
xpp2x100g3_06300.sha256
xpp4x40_06300.sha256
xpp4x10g3_06300.sha256
xpp8x10_06300.sha256
xppmrj_06300.sha256
xppsp2_06300.sha256
xppxsp2_06300.sha256

```

FPGA file names and supported modules

File Name	Supported Modules
pbif4x40_06300.bin	4x40G modules
pbif8x10_06300.bin	8x10G modules
pbifmrj_06300.bin	24x1G and 48x1G modules
pbifsp2_06300.bin	2x10G, 4x10G, 4x10G-x and 20x1G modules
statsmrj_06300.bin	24x1G and 48x1G modules
xgmacsp2_06300.bin	2x10G, 4x10G-x and 4x10G modules
xpp2x100_06300.bin	2x100G modules (double-wide CFP-based module)
xpp4x40_06300.bin	4x40G modules
xpp4x10g3_06300.bin	4x10G modules
xpp8x10_06300.bin	8x10G modules
xppmrj_06300.bin	24x1G and 48x1G modules
xppsp2_06300.bin	2x10G, 4x10G, and 20x1G modules
xppxsp2_06300.bin	4x10G-x

pbif-ber-g3_06300.bin	20x10G and 2x100G modules (-M and -X2)
xpp20x10g3_06300.bin	20x10G modules
xpp2x100g3_06300.bin	2x100G modules (half-slot CFP2-based module)
mbridge32_06300.xsvf	MBRIDGE32
mbridge_06300.xsvf	MBRIDGE
sbridge_06300.mcs	Switch fabric modules
hsbridge_06300.mcs	High speed switch fabric modules

CER 2000 Series devices

When upgrading 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 R06.3.00 CER 2000 software upgrade

```

-NETIRON_IRONWARE_VER CES-CERV6.3.00
#=====

-DIRECTORY /Boot
ceb06000.bin

-DIRECTORY /Application
ce06300.bin

-DIRECTORY /FPGA
pbifmetro_06300.bin

-END_OF_IMAGES

-DIRECTORY /Signatures
ceb06000.sig
ce06300.sig
pbifmetro_06300.sig
ceb06000.sha256
ce06300.sha256
pbifmetro_06300.sha256

-DIRECTORY /MIBS
ce06300.mib
ce06300_std.mib

-DIRECTORY /Yang
ExampleXML.txt
common-defs.yang
interface-config.yang
interface-statedata.yang

```

```
mpls-config.yang
mpls-statedata.yang
netiron-config.yang
netiron-statedata.yang
version-statedata.yang
vlan-config.yang
vlan-statedata.yang

-DIRECTORY
CES-CER06300_mnf.txt
CES-CER06300_mnf.sig
CES-CER06300_mnf.sha256

-DIRECTORY /Manuals
```

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 R06.3.00 software upgrade

```
-NETIRON_IRONWARE_VER XMR-MLXV6.3.00
#=====

-DIRECTORY /Boot/InterfaceModule
xmlprm05900.bin

-DIRECTORY /Boot/ManagementModule
xmprm05900.bin

# Application Images
-DIRECTORY /Combined/FPGA
lpfpga_npb_06300.bin

-DIRECTORY /Combined/Application
xm06300.bin

-DIRECTORY /Monitor/InterfaceModule
xmlb06200.bin

-DIRECTORY /Monitor/ManagementModule
xmb06200.bin

-DIRECTORY /Application/ManagementModule
xmr06300.bin

-DIRECTORY /Application/InterfaceModule
```

xmlp06300.bin

-DIRECTORY /FPGA/InterfaceModule

pbif4x40_06300.bin 2.11
pbif8x10_06300.bin 2.24
pbifmrj_06300.bin 4.04
pbifsp2_06300.bin 4.02
statsmrj_06300.bin 0.09
xgmacsp2_06300.bin 0.17
xpp2x100_06300.bin 1.06
xpp4x40_06300.bin 6.20
xpp4x10g3_06300.bin 0.00
xpp8x10_06300.bin 1.10
xppmrj_06300.bin 1.03
xppsp2_06300.bin 1.01
xppxsp2_06300.bin 1.01
pbif-ber-g3_06300.bin 2.11
xpp20x10g3_npb_06300.bin 0.10
xpp2x100g3_npb_06300.bin 0.10

-DIRECTORY /FPGA/ManagementModule

mbridge32_06300.xsvf 36
mbridge_06300.xsvf 37
sbridge_06300.mcs 6
hsbridge_06300.mcs 17

-END_OF_IMAGES

-DIRECTORY /Signatures

xmlprm05900.sig
xmprm05900.sig
xmlb06200.sig
xmb06200.sig
xmr06300.sig
xmlp06300.sig
lpfpga_npb_06300.sig
hsbridge_06300.sig
mbridge_06300.sig
mbridge32_06300.sig
sbridge_06300.sig
pbif4x40_06300.sig
pbif8x10_06300.sig
pbifmrj_06300.sig
pbifsp2_06300.sig
pbif-ber-g3_06300.sig
statsmrj_06300.sig
xgmacsp2_06300.sig
xpp2x100_06300.sig
xpp20x10g3_npb_06300.sig
xpp2x100g3_npb_06300.sig
xpp4x40_06300.sig
xpp4x10g3_06300.sig

xpp8x10_06300.sig
xppmrj_06300.sig
xppsp2_06300.sig
xppxsp2_06300.sig
xmlprm05900.sha256
xmprm05900.sha256
xmlb06200.sha256
xmb06200.sha256
xmr06300.sha256
xmlp06300.sha256
lpfpga_npb_06300.sha256
hsbridge_06300.sha256
mbridge_06300.sha256
mbridge32_06300.sha256
sbridge_06300.sha256
pbif4x40_06300.sha256
pbif8x10_06300.sha256
pbifmrj_06300.sha256
pbifsp2_06300.sha256
pbif-ber-g3_06300.sha256
statsmrj_06300.sha256
xgmacsp2_06300.sha256
xpp2x100_06300.sha256
xpp20x10g3_npb_06300.sha256
xpp2x100g3_npb_06300.sha256
xpp4x40_06300.sha256
xpp4x10g3_06300.sha256
xpp8x10_06300.sha256
xppmrj_06300.sha256
xppsp2_06300.sha256
xppxsp2_06300.sha256

MIBS:

-DIRECTORY /MIBS
xmr06300.mib
xmr06300_std.mib

-DIRECTORY /Yang
ExampleXML.txt
common-defs.yang
interface-config.yang
interface-statedata.yang
mpls-config.yang
mpls-statedata.yang
netiron-config.yang
netiron-statedata.yang
version-statedata.yang
vlan-config.yang
vlan-statedata.yang

-DIRECTORY /Tools
sbsupgrd.zip

-DIRECTORY
MLX_npb_06300_mnf.txt
MLX_npb_06300_mnf.sig
MLX_npb_06300_mnf.sha256

-DIRECTORY /Manuals

FPGA file names for NPB and supported modules

File Name	Supported Modules
xpp20x10g3_npb_06300.bin	20x10G modules FPGA for NPB
xpp2x100g3_npb_06300.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 NetIron 06.3.00, a two-step approach may be required.

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 06.3.00.

NOTE: If you are not running one of the releases listed above, you CANNOT directly upgrade to 6.3.

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, 05.8.00d, 05.7.00e or subsequent patch releases and reload the device.
2. Upgrade to NetIron 06.3.00. Reload the device.

Scenario 3

To upgrade to NetIron 06.3.00 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, 05.8.00d 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 06.3.00 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 06.3.00 UDA Enhancements

1. Upgrade to NetIron 06.3.00 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 06.3.00.
3. Configure the **fpga-mode-npb** command and save the configuration.
4. Upgrade to the NetIron 06.3.00 NPB image using MLX_npb_06300_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

```
SSH@MLX8-PE1#show version
System Mode: MLX
...
...
...
~~~~~
SL 3: NI-MLX-10Gx8-M 8-port 10GbE (M) Module (Serial #: BEQ0427H04G, Part #:
60-1001587-16)
(LID: dgsFJHMjFJi)
Boot      : Version 5.9.0T175 Copyright (c) 1996-2015 Brocade Communications
Systems, Inc.
Compiled on Mar 19 2015 at 03:17:00 labeled as xmlprm05900
(449576 bytes) from boot flash
Monitor   : Version 6.2.0T175 Copyright (c) 1996-2015 Brocade Communications
Systems, Inc.
Compiled on Aug 17 2017 at 11:22:42 labeled as xmlb06200
(573366 bytes) from code flash
IronWare  : Version 6.3.0T177 Copyright (c) 1996-2015 Brocade Communications
Systems, Inc.
Compiled on Aug 27 2018 at 18:26:50 labeled as xmlp06300
(9572782 bytes) from Primary
FPGA versions:
Valid PBIF Version = 2.24, Build Time = 4/7/2016 14:16:00

Valid XPP Version = 1.10, Build Time = 2/7/2017 10:41:00
```

Output example for the show flash command

```
SSH@MLX8-PE1#show flash
```


...
...
...

~~~~~  
Line Card Slot 1  
Code Flash: Type MT28F256J3, Size 66846720 Bytes (~64 MB)  
 o IronWare Image (Primary)  
 Version 6.3.0T177, Size 9572782 bytes, Check Sum 93f3  
 Compiled on Aug 27 2018 at 18:26:50 labeled as xmlp06300  
 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 6.2.0T175, Size 573366 bytes, Check Sum faad  
 Compiled on Aug 17 2017 at 11:22:42 labeled as xmlb06200  
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 = 2.11, Build Time = 8/19/2016 14:54:00

**XPP Version = 0.00, Build Time = 5/9/2017 17:31:00**

**Output example for the show module command**

MCT2#show module

| Module                                     | Ports         | Starting MAC | Status               |
|--------------------------------------------|---------------|--------------|----------------------|
| M1 (left ):BR-MLX-MR2-X Management Module  |               | Active       |                      |
| M2 (right):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       |                      |
| S1: BR-MLX-10Gx8-X 8-port 10GbE (X) Module | CARD_STATE_UP | 8            | 0024.38a4.9200       |
| S2: BR-MLX-10Gx20 20-port 1/10GbE Module   | CARD_STATE_UP | 20           | 0024.38a4.9230       |
| S3: BR-MLX-40Gx4-M 4-port 40GbE Module     | CARD_STATE_UP | 4            | 0024.38a4.9260       |

|                                      |               |   |              |
|--------------------------------------|---------------|---|--------------|
| S4: BR-MLX-100Gx2-CFP2 2-port 100GbE |               |   |              |
| Module                               | CARD_STATE_UP | 2 | 0024.38a4.92 |
| 90                                   |               |   |              |

### **OpenFlow upgrade and downgrade**

When downgrading the system from NetIron 06.3.00 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 from any release to R06.3.00 is NOT supported.

# Limitations and restrictions

## Important notes

### 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 06.3.00

| TSB  | Summary |
|------|---------|
| None |         |

### TSB issues outstanding in NI 06.3.00

| TSB  | Summary |
|------|---------|
| None |         |

## Closed with code changes NI06.3.00

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 08/30/2018 in NetIron OS 06.3.00.

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

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                         |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------|
| <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<br>Routing/Network<br>Layer     |
| <b>Reported In Release:</b> | NI 05.6.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Technology:</b>       | OSPF - IPv4 Open<br>Shortest Path First |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                                         |

|                             |                                                                                                                                                                                                                                        |                          |                                         |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------|
| <b>Defect ID:</b>           | DEFECT000644574                                                                                                                                                                                                                        |                          |                                         |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                 | <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 05.8.00                                                                                                                                                                                                                             | <b>Technology:</b>       | OSPF - IPv4 Open<br>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.                                                                                                                                                                     |                          |                                         |

|                             |                                                                                |                          |            |
|-----------------------------|--------------------------------------------------------------------------------|--------------------------|------------|
| <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                                                         |                          |            |

|                             |                                                                                                                                       |                          |                                             |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000646227                                                                                                                       |                          |                                             |
| <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,<br>Admin &<br>Maintenance |
| <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 |                          |                                             |

|                             |                                                                |                          |                                                           |
|-----------------------------|----------------------------------------------------------------|--------------------------|-----------------------------------------------------------|
| <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,<br>Availability, and<br>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                          |                          |                                                           |



|                             |                                                                                                                                                                                                                                                                                                                                                                                   |                          |                                        |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|
| <b>Defect ID:</b>           | DEFECT000646724                                                                                                                                                                                                                                                                                                                                                                   |                          |                                        |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                              | <b>Probability:</b>      | Medium                                 |
| <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>             | 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> |                          |                                        |

|                             |                                                                                                                                                                                                                                                                                        |                          |              |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------|
| <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>           | <ol style="list-style-type: none"> <li>1.The problematic prefix has to be learned from two different BGP peers.</li> <li>2.Both BGP peers should have equal IGP cost</li> <li>3.Static NULL0 drop route also configured for the next-hop</li> <li>4.Backup LSP path is down</li> </ol> |                          |              |
| <b>Workaround:</b>          | Configure route-maps with MED to override the Static NULL0 route                                                                                                                                                                                                                       |                          |              |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                                           |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <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>Possible Stack Trace (function call return address list)<br>20adcd84:<br>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: snlfOpticalMonitoringInfoEntry_get_value<br>208a9e2c: snlfOpticalMonitoringInfoEntry_next<br>209642f4: SNMP_Process_Bulk_Redo<br>20966fb4: SNMP_Continue_function<br>20967088: process_packet_two<br>2096751c: process_packet_one<br>20967868: Process_Rcvd_SNMP_Packet_Async<br>20965504: Process_Received_SNMP_Packet<br>209919a4: snmp_receive_message<br>209943a0: snmp_udp_rcv_callback_common<br>209944ac: snmp_udp_rcv_callback<br>20ba0540: itc_process_msgs_internal<br>20ba09ec: itc_process_msgs<br>2099101c: snmp_task<br>00005e18: sys_end_task |                          |                                           |
| <b>Condition:</b>           | While inserting non-Brocade (Flex Optix) CFP2-QSFP28 adapter on a 2x100G-CFP2 Linecard module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                           |

|                             |                                                                          |                          |                                           |
|-----------------------------|--------------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Defect ID:</b>           | 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: IldpRemTable (.1.0.8802.1.1.2.1.4.1)                 |                          |                                           |
| <b>Workaround:</b>          | Disable SNMP polling for the table: IldpRemTable (.1.0.8802.1.1.2.1.4.1) |                          |                                           |

|                             |                                                                                                                                                                                                       |                          |                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------|
| <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<br>Routing/Network<br>Layer     |
| <b>Reported In Release:</b> | NI 05.6.00                                                                                                                                                                                            | <b>Technology:</b>       | OSPF - IPv4 Open<br>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. |                          |                                         |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                                      |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|
| <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<br>Routing/Network<br>Layer  |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Technology:</b>       | ARP - Address<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                      |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                             |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------|
| <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,<br>Admin &<br>Maintenance |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                             |

|                             |                                                                                                                                                                                                                                                                                           |                          |                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|
| <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<br>Routing/Network<br>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>           | <ol style="list-style-type: none"> <li>1. MRP should be configured on outer VLAN of Q-in-Q</li> <li>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</li> </ol> |                          |                                     |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                              |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000651950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                              |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Probability:</b>      | Low                          |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology Group:</b> | Management                   |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology:</b>       | CLI - Command Line Interface |
| <b>Symptom:</b>             | Management Module may unexpectedly reload with the following stack trace:-<br>Possible Stack Trace (function call return address list)<br>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 |                          |                              |
| <b>Condition:</b>           | "Show interface lag" is executed frequently from one or more SSH sessions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                              |

|                             |                                                                                                                                                                                                                                                                                                                                                                                 |                          |                              |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000652160                                                                                                                                                                                                                                                                                                                                                                 |                          |                              |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                                                                                                                                                          | <b>Probability:</b>      | Low                          |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                              | <b>Technology Group:</b> | Management                   |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                      | <b>Technology:</b>       | CLI - Command Line Interface |
| <b>Symptom:</b>             | Management Module may unexpectedly reload with the following stack trace:-<br>Possible Stack Trace (function call return address list)<br>202e3aec: generic_map_put(pc)<br>20bb6784: mlp_get_lp_data_request(lr)<br>20bb6784: mlp_get_lp_data_request<br>20ba0540: itc_process_msgs_internal<br>20ba09ec: itc_process_msgs<br>20bb8020: lp_agent_task<br>00005e18: sys_end_task |                          |                              |
| <b>Condition:</b>           | "Show interface lag" is executed frequently from one or more SSH sessions                                                                                                                                                                                                                                                                                                       |                          |                              |

|                             |                                                                         |                          |                              |
|-----------------------------|-------------------------------------------------------------------------|--------------------------|------------------------------|
| <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 |                          |                              |

|                             |                                                                                                                                                                                                            |                          |                               |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|
| <b>Defect ID:</b>           | DEFECT000653000                                                                                                                                                                                            |                          |                               |
| <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>       | IPv6 Addressing               |
| <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                                                                                                                                                                                       |                          |                               |

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

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

|                             |                                                                             |                          |                                 |
|-----------------------------|-----------------------------------------------------------------------------|--------------------------|---------------------------------|
| <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 Management              |
| <b>Reported In Release:</b> | NI 05.9.00                                                                  | <b>Technology:</b>       | Traffic Queueing and Scheduling |
| <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                                                  |                          |                                 |

|                             |                                                                                                  |                          |                     |
|-----------------------------|--------------------------------------------------------------------------------------------------|--------------------------|---------------------|
| <b>Defect ID:</b>           | DEFECT000655172                                                                                  |                          |                     |
| <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 'show chassis' may display incorrect information for available power and power status fields |                          |                     |
| <b>Condition:</b>           | Power-off power supply manually (OR)<br>Remove and re-insert the power cord.                     |                          |                     |



|                             |                                                                                                                                            |                          |                                                             |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000656069                                                                                                                            |                          |                                                             |
| <b>Technical Severity:</b>  | Medium                                                                                                                                     | <b>Probability:</b>      | Medium                                                      |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                         | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer                         |
| <b>Reported In Release:</b> | NI 05.6.00                                                                                                                                 | <b>Technology:</b>       | VRRPv2 - Virtual<br>Router Redundancy<br>Protocol Version 2 |
| <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. |                          |                                                             |

|                             |                                                                                                                                                                                                                          |                          |                                 |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| <b>Defect ID:</b>           | DEFECT000656359                                                                                                                                                                                                          |                          |                                 |
| <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 06.1.00                                                                                                                                                                                                               | <b>Technology:</b>       | CLI - Command Line<br>Interface |
| <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 =<br>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> |                          |                                 |

|                             |                                                                                                    |                          |                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000656781                                                                                    |                          |                                                    |
| <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<br>Network<br>Management<br>Protocol |
| <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                                                    |                          |                                                    |

|                             |                                                                                                                                                                                                                                                                 |                          |                              |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000656819                                                                                                                                                                                                                                                 |                          |                              |
| <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 06.2.00                                                                                                                                                                                                                                                      | <b>Technology:</b>       | CLI - Command Line Interface |
| <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> |                          |                              |

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

|                             |                                                                                                                                                                                      |                          |                               |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|
| <b>Defect ID:</b>           | DEFECT000657519                                                                                                                                                                      |                          |                               |
| <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>       | IPv6 Addressing               |
| <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 0x000abcdef0x00000000</pre> |                          |                               |
| <b>Condition:</b>           | Very rarely observed during frequent modifications of IPV6 routes                                                                                                                    |                          |                               |

|                             |                                                                                                                                                                                                                                        |                          |                                           |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000657929                                                                                                                                                                                                                        |                          |                                           |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                 | <b>Probability:</b>      | Medium                                    |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                     | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer       |
| <b>Reported In Release:</b> | NI 06.2.00                                                                                                                                                                                                                             | <b>Technology:</b>       | OSPFv3 - IPv6 Open<br>Shortest Path First |
| <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"                                                                                                                                                |                          |                                           |

|                             |                                                                                                                |                          |                     |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|
| <b>Defect ID:</b>           | DEFECT000658040                                                                                                |                          |                     |
| <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 06.1.00                                                                                                     | <b>Technology:</b>       | IPsec - IP 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.                     |                          |                     |

|                             |                                                                                                       |                          |                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|
| <b>Defect ID:</b>           | DEFECT000658072                                                                                       |                          |                               |
| <b>Technical Severity:</b>  | Low                                                                                                   | <b>Probability:</b>      | Medium                        |
| <b>Product:</b>             | Brocade NetIron OS                                                                                    | <b>Technology Group:</b> | Security                      |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                            | <b>Technology:</b>       | PBR - Policy-Based<br>Routing |
| <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                                 |                          |                               |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|
| <b>Defect ID:</b>           | DEFECT000658203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |                               |
| <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>       | Configuration<br>Fundamentals |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                               |

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

|                             |                                                                                                                                                                                                                                                                                                                                                           |                          |                                        |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|
| <b>Defect ID:</b>           | DEFECT000658409                                                                                                                                                                                                                                                                                                                                           |                          |                                        |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                                                                                                                                    | <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>             | BGP doesn't advertise component routes after applying the 'unsuppress-map' configuration                                                                                                                                                                                                                                                                  |                          |                                        |
| <b>Condition:</b>           | (1) BGP configured with 'router bgp' command<br>(2) 'aggregate-address' command configured to advertise the summary route for all the component routes that fall within the summary address<br>(3) Configure component routes with network command and apply the unsuppress-map command to the neighbors for which component routes need to be advertised |                          |                                        |
| <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.                                                                                                                                                                                                      |                          |                                        |

|                             |                                       |                          |                    |
|-----------------------------|---------------------------------------|--------------------------|--------------------|
| <b>Defect ID:</b>           | DEFECT000658414                       |                          |                    |
| <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>             | SSH Authentication may fail sometimes |                          |                    |
| <b>Condition:</b>           | with RSA public key authentication    |                          |                    |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                          |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------|
| <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                                     |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | MPLS VPLS - Virtual Private LAN Services |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                                          |

|                             |                                                                                                                   |                          |                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000658936                                                                                                   |                          |                                           |
| <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 05.8.00                                                                                                        | <b>Technology:</b>       | SNMP - Simple Network Management Protocol |
| <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) |                          |                                           |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| <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 Management              |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Technology:</b>       | Traffic Queueing and Scheduling |
| <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 20037eec: show_tech_support 2035ed7c: timer_callback_wrapper </pre> |                          |                                 |



|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <p>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>UDLD is configured with 100ms timeout by configuration command 'link-keepalive interval 1'</li> <li>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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                             |                                                                                                                                                                                                                                                                    |                          |                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|
| <b>Defect ID:</b>           | DEFECT000659364                                                                                                                                                                                                                                                    |                          |                                        |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                               | <b>Probability:</b>      | Medium                                 |
| <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>             | 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                                                                                                                                                                                                                                           |                          |                                        |

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

|                             |                                                             |                          |                                |
|-----------------------------|-------------------------------------------------------------|--------------------------|--------------------------------|
| <b>Defect ID:</b>           | DEFECT000659435                                             |                          |                                |
| <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<br>Lists |
| <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" |                          |                                |

|                             |                                                                                                                                                                                    |                          |          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------|
| <b>Defect ID:</b>           | DEFECT000659530                                                                                                                                                                    |                          |          |
| <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 06.2.00                                                                                                                                                                         | <b>Technology:</b>       | OpenFlow |
| <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                                                                                |                          |          |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                     |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                     |
| <b>Workaround:</b>          | <p>Configure the following fan-threshold parameters.</p> <p>CES2024F-4X#show fan-threshold</p> <pre> === Thermal Sensor Control Block (THERMAL_SENSOR_TEST_RULE_CPU) === Fan Speed Low: -1 - 52 Fan Speed Med: 48 - 56 Fan Speed Med-Hi: 53 - 60 Fan Speed Hi: 57 - 90 max_ts_shut_off_count = 1 shut_off_count = 0 0 === Thermal Sensor Control Block (THERMAL_SENSOR_TEST_RULE_PPCR1) === Fan Speed Low: -1 - 52 Fan Speed Med: 48 - 56 Fan Speed Med-Hi: 53 - 60 Fan Speed Hi: 57 - 100 max_ts_shut_off_count = 1 shut_off_count = 0 0 === Thermal Sensor Control Block (THERMAL_SENSOR_TEST_RULE_PPCR2) === Fan Speed Low: -1 - 52 Fan Speed Med: 48 - 56 Fan Speed Med-Hi: 53 - 60 Fan Speed Hi: 57 - 100 max_ts_shut_off_count = 1 shut_off_count = 0 0 === Thermal Sensor Control Block (THERMAL_SENSOR_TEST_RULE_PPCR3) === Fan Speed Low: -1 - 52 Fan Speed Med: 48 - 56 Fan Speed Med-Hi: 53 - 60 Fan Speed Hi: 57 - 100 max_ts_shut_off_count = 1 shut_off_count = 0 0 </pre> |                          |                     |

|                             |                                                                                 |                          |                              |
|-----------------------------|---------------------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000660056                                                                 |                          |                              |
| <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>       | LAG - Link Aggregation Group |
| <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 |                          |                              |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                                     |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|
| <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 Routing/Network Layer       |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Technology:</b>       | BGP4 - IPv4 Border Gateway Protocol |
| <b>Symptom:</b>             | <p>Line card may reload unexpectedly with the following stack trace:-<br/>Possible Stack Trace (function call return address list)</p> <p>21672168: memcpy(pc)<br/>211fe30c: kbp_memcpy(lr)<br/>20b5bf9c: kbp_npxpt_compare_data<br/>20b5b504: kbp_npxpt_execute_req<br/>20b5b300: kbp_npxpt_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/>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</p> |                          |                                     |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | 21599190: NlmNsTrie__FindRptEntries<br>215992d4: NlmNsTrie__SearchAndRepairRpt<br>215a7988: kbp_ftm_search_and_repair_rpt<br>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'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|                             |                                                                                                          |                          |                                     |
|-----------------------------|----------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|
| <b>Defect ID:</b>           | DEFECT000660187                                                                                          |                          |                                     |
| <b>Technical Severity:</b>  | Medium                                                                                                   | <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 05.4.00                                                                                               | <b>Technology:</b>       | IP Addressing                       |
| <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                                          |                          |                                     |

|                             |                                                                  |                          |                                           |
|-----------------------------|------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000660397                                                  |                          |                                           |
| <b>Technical Severity:</b>  | Medium                                                           | <b>Probability:</b>      | Medium                                    |
| <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>       | OSPFv3 - IPv6 Open<br>Shortest Path First |
| <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                     |                          |                                           |

|                             |                                                                                                                                                                            |                          |                              |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000660494                                                                                                                                                            |                          |                              |
| <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 06.2.00                                                                                                                                                                 | <b>Technology:</b>       | CLI - Command Line Interface |
| <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                                                                             |                          |                              |

|                             |                                                                                  |                          |                              |
|-----------------------------|----------------------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000660530                                                                  |                          |                              |
| <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 06.2.00                                                                       | <b>Technology:</b>       | LAG - Link Aggregation Group |
| <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 |                          |                              |

|                             |                                                                                                                                                                              |                          |                               |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|
| <b>Defect ID:</b>           | DEFECT000660592                                                                                                                                                              |                          |                               |
| <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>             | CPU may go High with the following ITC Queue full messages:-<br>dest app id = 0x0000000c : src app id = 0x00000014 : msg type = 0x00140002 : error = ITC_ERR_DEST_QUEUE_FULL |                          |                               |
| <b>Condition:</b>           | 12k IPv4 or IPv6 static routes                                                                                                                                               |                          |                               |

|                             |                                                       |                          |                              |
|-----------------------------|-------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000660604                                       |                          |                              |
| <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 06.2.00                                            | <b>Technology:</b>       | LAG - Link Aggregation Group |
| <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 |                          |                              |

|                             |                                                                                |                          |                    |
|-----------------------------|--------------------------------------------------------------------------------|--------------------------|--------------------|
| <b>Defect ID:</b>           | DEFECT000661006                                                                |                          |                    |
| <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>       | IPv6 over MPLS VPN |
| <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      |                          |                    |

|                             |                                                                                                                                                                                                                                                   |                          |                                        |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|
| <b>Defect ID:</b>           | DEFECT000661318                                                                                                                                                                                                                                   |                          |                                        |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                            | <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>             | 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                                                                                                                                                                                      |                          |                                        |

|                             |                                                                                                                                                                                                                                                                                                                 |                          |                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000661401                                                                                                                                                                                                                                                                                                 |                          |                                           |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                            | <b>Probability:</b>      | Medium                                    |
| <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>       | OSPFv3 - IPv6 Open<br>Shortest Path First |
| <b>Symptom:</b>             | OSPFv3 and IPV6 neighborhood 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> </ol> <p>or</p> <ol style="list-style-type: none"> <li>2. Configure static ipv6 neighbors</li> </ol> |                          |                                           |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                        |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|
| <b>Defect ID:</b>           | DEFECT000661413                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                        |
| <b>Technical Severity:</b>  | Medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <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 05.6.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | BGP4 - IPv4 Border<br>Gateway Protocol |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                        |



|                             |                                                                                                                                                                                                                    |                          |                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|
| <b>Defect ID:</b>           | DEFECT000661452                                                                                                                                                                                                    |                          |                                        |
| <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 06.2.00                                                                                                                                                                                                         | <b>Technology:</b>       | BGP4 - IPv4 Border<br>Gateway Protocol |
| <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 vpv4 neighbor all soft in'<br>2. 'Clear ip bgp vpv4 neighbor all soft'<br>3. Forcing each and every Route Reflector client to resend BGP updates |                          |                                        |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------|
| <b>Defect ID:</b>           | DEFECT000661617                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                         |
| <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 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | OSPF - IPv4 Open<br>Shortest Path First |
| <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                                                                                                                                                                                                                                                                                                                                                                |                          |                                         |

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

|                             |                                                                                                             |                          |            |
|-----------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|------------|
| <b>Defect ID:</b>           | DEFECT000661716                                                                                             |                          |            |
| <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>       | sFlow      |
| <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                                                               |                          |            |

|                             |                                                                              |                          |                     |
|-----------------------------|------------------------------------------------------------------------------|--------------------------|---------------------|
| <b>Defect ID:</b>           | DEFECT000661722                                                              |                          |                     |
| <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 06.0.00                                                                   | <b>Technology:</b>       | IPsec - IP 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            |                          |                     |

|                             |                                                            |                          |                             |
|-----------------------------|------------------------------------------------------------|--------------------------|-----------------------------|
| <b>Defect ID:</b>           | DEFECT000661730                                            |                          |                             |
| <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>       | NTP - Network Time Protocol |
| <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 |                          |                             |

|                             |                                                                                                                                                                                                                                                                                                                                                                       |                          |                              |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000661859                                                                                                                                                                                                                                                                                                                                                       |                          |                              |
| <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 06.3.00                                                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | LAG - Link Aggregation Group |
| <b>Symptom:</b>             | For LACP based LAG deployment, user might observe that the device connected to NI device is not showing LAG member interface in down/Blocked state while NI device interfaces are LACP-Blocked, when the peer is configured with different key id. To observe this behavior, two or more interfaces should be connected in a LAG topology between NI and peer device. |                          |                              |
| <b>Condition:</b>           | This is a mis-configuration scenario where user has 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>          | To Avoid the behavior, user should configure same key on device connected to NI device.                                                                                                                                                                                                                                                                               |                          |                              |
| <b>Recovery:</b>            | User should configure same key on device connected to NI device.and LACP Lag should recover from this situation.                                                                                                                                                                                                                                                      |                          |                              |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                           |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------|
| <b>Defect ID:</b>           | DEFECT000661906                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                           |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Probability:</b>      | Low                       |
| <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>             | <p>Unexpected traffic loss in transit node with Class 0 Remap index updated as "54" instead of "0" in the following rate-limit output :-<br/> LP#dm rate-limit ppcr 0 0<br/> :<br/> :<br/> Class Bound CIR CBS ACCRT EIR EBS ACERT Remap<br/> Remark<br/> -----</p> <pre> 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.<br/> ex :<br/> conf t<br/> policy-map rl-icmp<br/> cir 993568 cbs 2000000<br/> end<br/> conf t<br/> ip receive access-list 192 sequence 30 policy-map rl-icmp<br/> end</p>                                                                  |                          |                           |

|                             |                                                                      |                          |                             |
|-----------------------------|----------------------------------------------------------------------|--------------------------|-----------------------------|
| <b>Defect ID:</b>           | DEFECT000661933                                                      |                          |                             |
| <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 06.0.00                                                           | <b>Technology:</b>       | ACLs - Access Control Lists |
| <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? |                          |                             |

|                             |                                                                                           |                          |                                      |
|-----------------------------|-------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|
| <b>Defect ID:</b>           | DEFECT000662137                                                                           |                          |                                      |
| <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 06.2.00                                                                                | <b>Technology:</b>       | PIM - Protocol-Independent 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?                             |                          |                                      |

|                             |                                                    |                          |                     |
|-----------------------------|----------------------------------------------------|--------------------------|---------------------|
| <b>Defect ID:</b>           | DEFECT000662194                                    |                          |                     |
| <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 06.0.00                                         | <b>Technology:</b>       | Hardware Monitoring |
| <b>Symptom:</b>             | 'show optic <slot>' does not show any light levels |                          |                     |
| <b>Condition:</b>           | It is specific to Finisar QSFP28-CFP2 optic        |                          |                     |

|                             |                                                                                                                       |                          |                              |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000662202                                                                                                       |                          |                              |
| <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>             | '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 #'                              |                          |                              |

|                             |                                                                                                                          |                          |                                     |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|
| <b>Defect ID:</b>           | DEFECT000663193                                                                                                          |                          |                                     |
| <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 - IPv4 Border Gateway Protocol |
| <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                                                                      |                          |                                     |

|                             |                                                                                                                                                                                                                                                                                                                        |                          |                           |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------|
| <b>Defect ID:</b>           | DEFECT000663296                                                                                                                                                                                                                                                                                                        |                          |                           |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                   | <b>Probability:</b>      | Low                       |
| <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>             | Traffic loss may be observed with Rate-limit policy                                                                                                                                                                                                                                                                    |                          |                           |
| <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.</p> <p>ex :</p> <pre> conf t   policy-map aaaaa     cir xxxxxxx cbs yyyyyyy   end conf t   ip receive access-list zz sequence xy policy-map aaaaa end </pre> |                          |                           |

## Closed without code changes NI06.3.00

This section lists software defects with Critical, High, and Medium Technical Severity closed without a code change as of 08/30/2018 in NetIron OS 06.3.00.

|                             |                                                                                                                                                                                  |                            |                              |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000602148                                                                                                                                                                  | <b>Technical Severity:</b> | Medium                       |
| <b>Reason Code:</b>         | Not Reproducible                                                                                                                                                                 | <b>Probability:</b>        | High                         |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                               | <b>Technology Group:</b>   | Layer 2 Switching            |
| <b>Reported In Release:</b> | NI 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                                                                                                 |                            |                              |

|                             |                                                                                                                          |                            |                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000644706                                                                                                          | <b>Technical Severity:</b> | High                                       |
| <b>Reason Code:</b>         | Not Reproducible                                                                                                         | <b>Probability:</b>        | Low                                        |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                       | <b>Technology Group:</b>   | IP Multicast                               |
| <b>Reported In Release:</b> | NI 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". |                            |                                            |

|                             |                                                                                    |                            |                        |
|-----------------------------|------------------------------------------------------------------------------------|----------------------------|------------------------|
| <b>Defect ID:</b>           | DEFECT000649337                                                                    | <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 06.2.00                                                                         | <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                      |                            |                        |

|                             |                                                                                                     |                            |                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000653077                                                                                     | <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>   | Management                                |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                          | <b>Technology:</b>         | SNMP - Simple Network Management Protocol |
| <b>Symptom:</b>             | BGP session may flap                                                                                |                            |                                           |
| <b>Condition:</b>           | SNMP polling of BGP tables (bgp4PathAttrTable, bgp4V2NlriTable) with 600K or more BGP route entries |                            |                                           |
| <b>Workaround:</b>          | Disable SNMP polling for the table: bgp4PathAttrTable, bgp4V2NlriTable                              |                            |                                           |

|                             |                                                                                                                                                                                                                                      |                            |                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000654629                                                                                                                                                                                                                      | <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 2 Switching            |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                                                                           | <b>Technology:</b>         | MCT - Multi-Chassis Trunking |
| <b>Symptom:</b>             | CCP protocol does not go down on MCT cluster node                                                                                                                                                                                    |                            |                              |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1. MCT cluster with L2VPN peer should be configured on both the Cluster peer nodes</li> <li>2. "client-interface shutdown" command should be issued on the MCT Active Cluster node</li> </ol> |                            |                              |

|                             |                                                                                                                                                                                                                               |                            |                              |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000654631                                                                                                                                                                                                               | <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 2 Switching            |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                                                                    | <b>Technology:</b>         | MCT - Multi-Chassis Trunking |
| <b>Symptom:</b>             | "client-interface shutdown" command does not bring the CCP down and MCT VLL Active/Standby switchover does not happen                                                                                                         |                            |                              |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>(1) MCT cluster with VPLS and VLL should be configured on both the peer nodes .</li> <li>(2)"client-interface shutdown" command should be issued on MCT Active cluster node</li> </ol> |                            |                              |



|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------|
| <b>Defect ID:</b>           | DEFECT000654707                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <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>   | IP Multicast                         |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Technology:</b>         | PIM - Protocol-Independent Multicast |
| <b>Symptom:</b>             | Line card may reload unexpectedly with the following stack trace:-<br>21584ddc: memcpy(pc)<br>20f48b28: pimsm_encapsulate_pkt_and_send_to_rp(lr)<br>20f4987c: pimsm_forward_multicast_pkt<br>20f4850c: pim_forward_multicast<br>20f27d98: mcast_flow_fast_forward<br>20eaeb3c: fpip_process_ip_packet_with_l2_broadcast<br>20eedb20: rx_pkt_processing<br>20d4f4a4: lp_pkt_receive<br>20a0f028: ppcr_recieve_packet<br>207eef3c: lp_pbif_packet_task<br>00040158: sys_end_task |                            |                                      |
| <b>Condition:</b>           | Flap the interface on MCT Peer repeatedly with multicast-routing and PIM SM configured on MCT                                                                                                                                                                                                                                                                                                                                                                                  |                            |                                      |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                         |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------|
| <b>Defect ID:</b>           | DEFECT000654817                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <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 3<br>Routing/Network<br>Layer     |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Technology:</b>         | OSPF - IPv4 Open<br>Shortest Path First |
| <b>Symptom:</b>             | CES/CER may unexpectedly reload with the following stack trace :-<br>205e15d8: time_tree_delete_first_entry_and_add(pc)<br>205e1de8: trace_util_add_entry_avl(lr)<br>205e1de8: trace_util_add_entry_avl<br>20598540: IPTRACE_AVL<br>20598294: IPTRACE_AVL_USING_RT_ENTRY<br>204cacd8: lp_cam_add_ip_nexthop_route<br>204ca61c: lp_cam_add_ip_route<br>205b0674: ip_update_pram_for_route_entry_puma<br>205b08ec: ip_update_pram_for_route_entry<br>206497bc: dp_trie_process_one_route_update<br>2064a124: dp_trie_process_route_update<br>2064a2bc: process_tree_dy_messages<br>203793cc: process_dy_change_packet<br>203ae898: ipc_multi_module_handler<br>203b0e74: ipc_process_messages<br>203b1634: ipc_receive_packet<br>203abef0: ge_process_ipc_data_msg<br>203ac278: ge_process_ipc_msg<br>200bb704: metro_sys_loop<br>200b10e0: main<br>00040158: sys_end_task |                            |                                         |
| <b>Condition:</b>           | It is very rarely observed with the following scale on CES/CER MCT Cluster by flapping ICL interface repeatedly<br>250 VPLS instances<br>100 VLL<br>500 IGMP group<br>250 MLD group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                                         |

|                             |                                                                                                                                                                            |                            |                                       |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Defect ID:</b>           | DEFECT000655355                                                                                                                                                            | <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>   | Monitoring                            |
| <b>Reported In Release:</b> | NI 06.0.00                                                                                                                                                                 | <b>Technology:</b>         | OAM - Operations, Admin & Maintenance |
| <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. |                            |                                       |

|                             |                                                                                                                                                          |                            |                             |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|
| <b>Defect ID:</b>           | DEFECT000658063                                                                                                                                          | <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>   | Security                    |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                               | <b>Technology:</b>         | ACLs - Access Control Lists |
| <b>Symptom:</b>             | May observe the following syslog message:-<br>Apr 2 00:33:12 Dut list 0 denied all 0.0.0.0(xyz)(Ethernet x/y 0000.0000.0000) -> 0.0.0.0(n), abc event(s) |                            |                             |
| <b>Condition:</b>           | Two ACL's with deny rule binded to the same interface with deny logging enabled                                                                          |                            |                             |

|                             |                                                      |                            |                     |
|-----------------------------|------------------------------------------------------|----------------------------|---------------------|
| <b>Defect ID:</b>           | DEFECT000658976                                      | <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>   | Monitoring          |
| <b>Reported In Release:</b> | NI 05.6.00                                           | <b>Technology:</b>         | Hardware Monitoring |
| <b>Symptom:</b>             | Observed incorrect Timestamp in 'show tm log' output |                            |                     |
| <b>Condition:</b>           | On execution of ?show tm log?                        |                            |                     |

|                             |                                                                                                                                                           |                            |                                                |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000659925                                                                                                                                           | <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 3<br>Routing/Network<br>Layer            |
| <b>Reported In Release:</b> | NI 06.2.00                                                                                                                                                | <b>Technology:</b>         | BFD - BiDirectional<br>Forwarding<br>Detection |
| <b>Symptom:</b>             | BFD neighbor session would take 3 minutes to come up on bringing up the interface                                                                         |                            |                                                |
| <b>Condition:</b>           | (1) bring up the BFD session between the neighbors with the image below 5.7 or above loaded<br>(2) bring DOWN the interface<br>(3) bring UP the interface |                            |                                                |

## Known issues NI06.3.00

This section lists open software defects with Critical, High, and Medium Technical Severity as of 08/30/2018 in NetIron OS 06.3.00.

|                             |                                                                                                                           |                          |                                      |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|
| <b>Defect ID:</b>           | DEFECT000605799                                                                                                           |                          |                                      |
| <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>       | 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. |                          |                                      |

|                             |                                                                                                                                                                                    |                          |                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------|
| <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 |                          |                                            |

|                             |                                                                   |                          |                             |
|-----------------------------|-------------------------------------------------------------------|--------------------------|-----------------------------|
| <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/CER does not synchronize time with NTP broadcast server.      |                          |                             |
| <b>Condition:</b>           | NTP broadcast client configuration on default or non default VRF. |                          |                             |

|                             |                                                                                          |                          |                             |
|-----------------------------|------------------------------------------------------------------------------------------|--------------------------|-----------------------------|
| <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. |                          |                             |

|                             |                                                                               |                          |                                           |
|-----------------------------|-------------------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <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                       |                          |                                           |

|                             |                                                                                                                                          |                          |                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------|
| <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 |                          |                                            |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                        |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|
| <b>Defect ID:</b>           | DEFECT000633774                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                        |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Probability:</b>      | Medium                                 |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer    |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | BGP4 - IPv4 Border<br>Gateway Protocol |
| <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_nlris<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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                                        |

|                             |                                                                                                                                                                                                                                                                                                                                                  |                          |                                 |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| <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<br>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>OR<br>When polling the below SNMP OID?s after enabling include-ethernet-framing-overhead configuration command.<br>? ifInOctets<br>? ifOutOctets<br>? ifHCInOctets<br>? ifHCOctets<br>? snSwIfInOctets<br>? snSwIfOutOctets. |                          |                                 |

|                             |                                                                                                                            |                          |                              |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000638634                                                                                                            |                          |                              |
| <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>       | LAG - Link Aggregation Group |
| <b>Symptom:</b>             | The LAG port may not go down on receiving the timed-out LACP BPDU from peer with reset of collecting and distributing bits |                          |                              |
| <b>Condition:</b>           | Mac access-list with explicit deny all is configured on a LAG port                                                         |                          |                              |

|                             |                                                                  |                          |                                                       |
|-----------------------------|------------------------------------------------------------------|--------------------------|-------------------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000642613                                                  |                          |                                                       |
| <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>       | 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           |                          |                                                       |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                       |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------|
| <b>Defect ID:</b>           | DEFECT000643261                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                       |
| <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 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>           | <p>A PC Host receives multicast traffic, even if it has not sent an IGMP Join message for the multicast group.</p> <p>Conditions:</p> <ol style="list-style-type: none"> <li>An active receiver on one of the ports of vlan.(with IGMP snooping enabled). Other ports of vlan do not receive multicast traffic.</li> <li>Disable IGMP snooping on the vlan. MC traffic resumes(due to default flooding behavior on vlan).</li> <li>Re-enable the IGMP snooping configuration.</li> <li>All the ports of vlan continue to receive the multicast traffic.</li> </ol> |                          |                                       |



|                             |                                                                 |                          |                                         |
|-----------------------------|-----------------------------------------------------------------|--------------------------|-----------------------------------------|
| <b>Defect ID:</b>           | DEFECT000643881                                                 |                          |                                         |
| <b>Technical Severity:</b>  | Medium                                                          | <b>Probability:</b>      | Medium                                  |
| <b>Product:</b>             | Brocade NetIron OS                                              | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer     |
| <b>Reported In Release:</b> | NI 05.8.00                                                      | <b>Technology:</b>       | OSPF - IPv4 Open<br>Shortest Path First |
| <b>Symptom:</b>             | Inconsistent behavior may be observed between OSPFV2 and OSPFV3 |                          |                                         |
| <b>Condition:</b>           | Configuration of 'max-metric' command                           |                          |                                         |

|                             |                                                                                                                                                                                                                                                                                                                             |                          |            |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|
| <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.                                                                                                                                                                                                                                                                   |                          |            |

|                             |                                                                     |                          |                              |
|-----------------------------|---------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000656284                                                     |                          |                              |
| <b>Technical Severity:</b>  | High                                                                | <b>Probability:</b>      | Low                          |
| <b>Product:</b>             | Brocade NetIron OS                                                  | <b>Technology Group:</b> | Traffic Management           |
| <b>Reported In Release:</b> | NI 05.8.00                                                          | <b>Technology:</b>       | Rate Limiting and<br>Shaping |
| <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                                                |                          |                              |

|                             |                                                                                 |                          |                                      |
|-----------------------------|---------------------------------------------------------------------------------|--------------------------|--------------------------------------|
| <b>Defect ID:</b>           | DEFECT000657027                                                                 |                          |                                      |
| <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 06.2.00                                                                      | <b>Technology:</b>       | PIM - Protocol-Independent Multicast |
| <b>Symptom:</b>             | (S,G) for some groups are not formed in intermediate CER router                 |                          |                                      |
| <b>Condition:</b>           | Rarely observed with PIM-DM enabled on all the interfaces during router upgrade |                          |                                      |

|                             |                                                                                                      |                          |                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|
| <b>Defect ID:</b>           | DEFECT000657175                                                                                      |                          |                                      |
| <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 06.2.00                                                                                           | <b>Technology:</b>       | PIM - Protocol-Independent Multicast |
| <b>Symptom:</b>             | Multicast traffic drops in a multicast snooping enabled switch which is directly connected to Source |                          |                                      |
| <b>Condition:</b>           | Rarely observed on a Multicast snooping enabled switch configured with multicast passive on VLAN     |                          |                                      |

|                             |                                                                                                                                                                |                          |          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------|
| <b>Defect ID:</b>           | DEFECT000657277                                                                                                                                                |                          |          |
| <b>Technical Severity:</b>  | High                                                                                                                                                           | <b>Probability:</b>      | Medium   |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                             | <b>Technology Group:</b> | SDN      |
| <b>Reported In Release:</b> | NI 05.8.00                                                                                                                                                     | <b>Technology:</b>       | OpenFlow |
| <b>Symptom:</b>             | Sometimes Open flow rules may not get installed                                                                                                                |                          |          |
| <b>Condition:</b>           | On receiving the update action within a second, while processing the same Open flow rule with same priority and priority should be less than the existing flow |                          |          |

|                             |                                                                                                                                                                                                                                                                                                                                       |                          |                              |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000657631                                                                                                                                                                                                                                                                                                                       |                          |                              |
| <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 06.2.00                                                                                                                                                                                                                                                                                                                            | <b>Technology:</b>       | MCT - Multi-Chassis Trunking |
| <b>Symptom:</b>             | VPLS traffic may be dropped on the MCT peer node                                                                                                                                                                                                                                                                                      |                          |                              |
| <b>Condition:</b>           | <ol style="list-style-type: none"> <li>1) MCT over VPLS should be configured</li> <li>2) 'Client interface shutdown' has to be configured on VPLS active node to make the CCEP port disable</li> <li>3) After traffic switched to the MCT peer node which is the new active node, reload the current passive MCT VPLS node</li> </ol> |                          |                              |

|                             |                                                                                                                                    |                          |                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| <b>Defect ID:</b>           | DEFECT000658979                                                                                                                    |                          |                          |
| <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>             | LSP session may not go down                                                                                                        |                          |                          |
| <b>Condition:</b>           | 1) MPLS LSP tunnel should be established with the remote peer<br>2) Disable the loop back interface (peer IP) on the remote device |                          |                          |

|                             |                                                                                                              |                          |                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|
| <b>Defect ID:</b>           | DEFECT000659209                                                                                              |                          |                        |
| <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 Routing |
| <b>Symptom:</b>             | Multicast traffic may drop in PIM router below RP which is connected towards the receiver in non-default VRF |                          |                        |
| <b>Condition:</b>           | Rarely observed after PIM RP node reloads                                                                    |                          |                        |
| <b>Workaround:</b>          | Execute clear ip pim mcache vrf <vrf-name> in downstream router after RP                                     |                          |                        |

|                             |                                                                                  |                          |                              |
|-----------------------------|----------------------------------------------------------------------------------|--------------------------|------------------------------|
| <b>Defect ID:</b>           | DEFECT000659554                                                                  |                          |                              |
| <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>       | CLI - Command Line Interface |
| <b>Symptom:</b>             | 'fan-threshold' configuration is not saved in running-configuration after reload |                          |                              |
| <b>Condition:</b>           | Fan speed is manually configured using 'fan-threshold' command                   |                          |                              |

|                             |                                                                                           |                          |                                      |
|-----------------------------|-------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|
| <b>Defect ID:</b>           | DEFECT000661201                                                                           |                          |                                      |
| <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 06.0.00                                                                                | <b>Technology:</b>       | BGP4+ - IPv6 Border Gateway Protocol |
| <b>Symptom:</b>             | Ipv6 BGP peering session may encounter "Optional attribute error"                         |                          |                                      |
| <b>Condition:</b>           | 1. IPv6 Additional-Paths option is enabled<br>2. Processed withdraw message from neighbor |                          |                                      |

|                             |                                                                    |                          |                                           |
|-----------------------------|--------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000661407                                                    |                          |                                           |
| <b>Technical Severity:</b>  | High                                                               | <b>Probability:</b>      | Medium                                    |
| <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>       | OSPFv3 - IPv6 Open<br>Shortest Path First |
| <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>                                          |                          |                                           |

|                             |                                                            |                          |                                                    |
|-----------------------------|------------------------------------------------------------|--------------------------|----------------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000661679                                            |                          |                                                    |
| <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 06.2.00                                                 | <b>Technology:</b>       | SNMP - Simple<br>Network<br>Management<br>Protocol |
| <b>Symptom:</b>             | ifPhysAddress may return primary port physical MAC address |                          |                                                    |
| <b>Condition:</b>           | for all the member ports other than primary port in a LAG  |                          |                                                    |

|                             |                                                                                                                                              |                          |                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000661865                                                                                                                              |                          |                                                |
| <b>Technical Severity:</b>  | Medium                                                                                                                                       | <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>       | ICMP - Internet<br>Control Message<br>Protocol |
| <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<br>in the below configuration command<br>"ipv6 nd reachable-time <secs>" |                          |                                                |

|                             |                                                                                                                                                                                                                |                          |                             |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------|
| <b>Defect ID:</b>           | DEFECT000662001                                                                                                                                                                                                |                          |                             |
| <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>       | ACLs - Access Control Lists |
| <b>Symptom:</b>             | Traffic loss with TX ACL drops may be observed in 'show np stat'                                                                                                                                               |                          |                             |
| <b>Condition:</b>           | 1) Ingress port has to be configured with PBR route-map with flood vlan<br>2)Transparent vlan flooding has to be enabled on the egress vlan<br>3)Egress port should be 40G and configured with loopback system |                          |                             |

|                             |                                                                                                                                              |                          |                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| <b>Defect ID:</b>           | DEFECT000662025                                                                                                                              |                          |                          |
| <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>             | 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. |                          |                          |

|                             |                                                                                                                                                                                                    |                          |                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|
| <b>Defect ID:</b>           | DEFECT000662210                                                                                                                                                                                    |                          |                                      |
| <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>       | BGP4+ - IPv6 Border Gateway Protocol |
| <b>Symptom:</b>             | BGP multipaths are not happened properly for BGP IPv6 routes that are learned in VRF                                                                                                               |                          |                                      |
| <b>Condition:</b>           | 1. iBGP neighborship established with 2 neighbors in VRF<br>2. BGP multipaths are enabled<br>3. The same route is advertised from both the neighbors with the same local_pref, MED, ORIGIN, weight |                          |                                      |
| <b>Workaround:</b>          | Configure "always-compare-med" in 'router bgp'                                                                                                                                                     |                          |                                      |

|                             |                                                                         |                          |                           |
|-----------------------------|-------------------------------------------------------------------------|--------------------------|---------------------------|
| <b>Defect ID:</b>           | DEFECT000662260                                                         |                          |                           |
| <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 06.2.00                                                              | <b>Technology:</b>       | Rate Limiting and Shaping |
| <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           |                          |                           |

|                             |                                                         |                          |                                            |
|-----------------------------|---------------------------------------------------------|--------------------------|--------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000662321                                         |                          |                                            |
| <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>       | DHCP - Dynamic Host Configuration Protocol |
| <b>Symptom:</b>             | High CPU may be observed on CER                         |                          |                                            |
| <b>Condition:</b>           | Processed high rate of fragmented DHCP protocol packets |                          |                                            |

|                             |                                                                                                         |                          |                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000662992                                                                                         |                          |                                                         |
| <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 06.3.00                                                                                              | <b>Technology:</b>       | IS-IS - IPv4 Intermediate System to Intermediate System |
| <b>Symptom:</b>             | User may observe reload of standby MP                                                                   |                          |                                                         |
| <b>Condition:</b>           | User may observe this issue on a system with scaled IS-IS configuration when "clear isis all" is issued |                          |                                                         |

|                             |                                                                   |                          |            |
|-----------------------------|-------------------------------------------------------------------|--------------------------|------------|
| <b>Defect ID:</b>           | DEFECT000664218                                                   |                          |            |
| <b>Technical Severity:</b>  | Low                                                               | <b>Probability:</b>      | Low        |
| <b>Product:</b>             | Brocade NetIron OS                                                | <b>Technology Group:</b> | Monitoring |
| <b>Reported In Release:</b> | NI 06.2.00                                                        | <b>Technology:</b>       | Syslog     |
| <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. |                          |            |

|                             |                                                                                                       |                          |                                                                  |
|-----------------------------|-------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------|
| <b>Defect ID:</b>           | DEFECT000664742                                                                                       |                          |                                                                  |
| <b>Technical Severity:</b>  | High                                                                                                  | <b>Probability:</b>      | High                                                             |
| <b>Product:</b>             | Brocade NetIron OS                                                                                    | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer                              |
| <b>Reported In Release:</b> | NI 06.3.00                                                                                            | <b>Technology:</b>       | IS-IS - IPv4<br>Intermediate System<br>to Intermediate<br>System |
| <b>Symptom:</b>             | User may observe that IS-IS routes are not advertised to the neighbors                                |                          |                                                                  |
| <b>Condition:</b>           | User may observe this issue on a system with scaled IS-IS configuration and many loopback interfaces. |                          |                                                                  |
| <b>Recovery:</b>            | User can issue "clear isis all" on the system that is not advertising IS-IS routes to the neighbors   |                          |                                                                  |

|                             |                                                                                                                                                                              |                          |                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|
| <b>Defect ID:</b>           | DEFECT000665208                                                                                                                                                              |                          |                    |
| <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>       | 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> |                          |                    |

|                             |                                                                                                                                                                                          |                          |                                     |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|
| <b>Defect ID:</b>           | DEFECT000665302                                                                                                                                                                          |                          |                                     |
| <b>Technical Severity:</b>  | High                                                                                                                                                                                     | <b>Probability:</b>      | Medium                              |
| <b>Product:</b>             | Brocade NetIron OS                                                                                                                                                                       | <b>Technology Group:</b> | Layer 3<br>Routing/Network<br>Layer |
| <b>Reported In Release:</b> | NI 06.3.00                                                                                                                                                                               | <b>Technology:</b>       | Multi-VRF                           |
| <b>Symptom:</b>             | Route for loopback interfaces might not be advertised to BGP peers after a router reload.                                                                                                |                          |                                     |
| <b>Condition:</b>           | With a BGP configuration over 100 BGP VRFs and a large configuration file                                                                                                                |                          |                                     |
| <b>Recovery:</b>            | <ol style="list-style-type: none"> <li>a. disable/enable the loopback interfaces, or</li> <li>b. clear ip bgp neighbor all soft out, or</li> <li>c. clear ip bgp local routes</li> </ol> |                          |                                     |















