

# NetIron OS 6.3.00a for ExtremeRouting MLX Series Devices

Release Notes 3.0

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## Document history

Version	Summary of changes	Publication date
1.0	Initial release	11/14/2018
2.0	Updated the "Upgrade and downgrade considerations" section to include NetIron 06.3.00a and later in the respective scenarios.	03/21/2019
3.0	Minor updates to the "Upgrade and downgrade considerations" section for consistency with the Upgrade guide.	04/15/2019

## Preface

### Contacting Extreme Technical Support

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

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

- GTAC (Global Technical Assistance Center) for immediate support
- 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 <a href="https://www.extremenetworks.com/support/documentation/">https://www.extremenetworks.com/support/documentation/</a>.

### 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 <a href="https://www.extremenetworks.com/documentation-feedback/">https://www.extremenetworks.com/documentation-feedback/</a>
- 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 6.3.00 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 6.3.00a

There are no behavior changes in release NetIron 6.3.00a.

### Software Features

**NOTE:** The NetIron 6.3.00 release (the image files and the documentation) is no longer available from the Extreme Portal. New software features introduced in release 6.3.00 are included in release 6.3.00a.

### New software features introduced in R6.3.00

The following software features are introduced in NetIron 6.3.00 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 6.3.00a, 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 R6.3.00

- 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 6.3.00a.

### 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 6.3.00a and later, the ExtremeSwitching CES 2000 Series devices are not supported. Refer to the <u>End of Sale and End of Support</u> 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 R6.3.00a

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	Compatib	le 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	Compatil	ble 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	Compatib	Compatible devices	
		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	За
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	Compatik	ole 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

 $\frac{https://cloud.kapostcontent.net/pub/a070d154-d6f1-400b-b2f0-3d039ae2f604/data-center-ethernet-optics-data-sheet?kui=Cc1YBpmqyfb2mDfw2vlq2g.$ 

## Software upgrade and downgrade

### Image file names

Download the following images from www.extremenetworks.com.

**NOTE:** Beginning with NetIron OS 6.3.00a and later, the ExtremeSwitching CES 2000 Series devices are not supported. Refer to the <u>End of Sale and End of Support</u> 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 R6.3.00a MLX Series/XMR software upgrade

```
# Manifest File for XMR/MLX Release 06.3.00
```

-NETIRON\_IRONWARE\_VER XMR-MLXV6.3.00a

#-----

```
-DIRECTORY /Boot/InterfaceModule xmlprm05900.bin
```

- -DIRECTORY /Boot/ManagementModule xmprm05900.bin
- # Application Images
  -DIRECTORY /Combined/FPGA
  lpfpga06300a.bin
- -DIRECTORY /Combined/Application xm06300a.bin
- -DIRECTORY /Monitor/InterfaceModule xmlb06200.bin
- -DIRECTORY /Monitor/ManagementModule xmb06200.bin
- -DIRECTORY /Application/ManagementModule xmr06300a.bin
- -DIRECTORY /Application/InterfaceModule xmlp06300a.bin

```
-DIRECTORY /FPGA/InterfaceModule
pbif4x40 06300a.bin 2.11
pbif8x10 06300a.bin 2.24
pbifmrj \overline{0}6300a.bin 4.04
pbifsp2 06300a.bin 4.02
statsmrj_06300a.bin 0.09
xgmacsp2 06300a.bin 0.17
xpp2x100 06300a.bin 1.06
xpp4x40 06300a.bin 6.20
xpp4x10g3 06300a.bin 0.00
xpp8x10 06300a.bin 1.10
xppmrj 06300a.bin 1.03
xppsp2 06300a.bin 1.01
xppxsp2 06300a.bin 1.01
pbif-ber-g3 06300a.bin 2.11
xpp20x10q3 06300a.bin 0.00
xpp2x100g3 06300a.bin 0.00
-DIRECTORY /FPGA/ManagementModule
mbridge32 06300a.xsvf 36
mbridge 06300a.xsvf 37
sbridge 06300a.mcs 6
hsbridge 06300a.mcs 17
-END OF IMAGES
-DIRECTORY /Signatures
xmlprm05900.sig
xmprm05900.sig
xmlb06200.sig
xmb06200.sig
xmr06300a.sig
xmlp06300a.sig
lpfpga06300a.sig
hsbridge 06300a.sig
mbridge \overline{0}6300a.sig
mbridge32 06300a.sig
sbridge 06300a.sig
pbif4x40 06300a.sig
pbif8x10 06300a.sig
pbifmrj 06300a.sig
pbifsp2 06300a.sig
pbif-ber-g3 06300a.sig
statsmrj 06\overline{3}00a.sig
xgmacsp2 06300a.sig
xpp2x100 06300a.sig
xpp20x10g3 06300a.sig
xpp2x100g3 06300a.sig
xpp4x40 06300a.sig
xpp4x10g3_06300a.sig
xpp8x10 06300a.sig
xppmrj 06300a.sig
xppsp2 06300a.sig
```

xppxsp2 06300a.sig xmlprm05900.sha256 xmprm05900.sha256 xmlb06200.sha256 xmb06200.sha256 xmr06300a.sha256 xmlp06300a.sha256 lpfpga06300a.sha256 hsbridge 06300a.sha256  $mbridge_{06300a.sha256}$ mbridge32 06300a.sha256 sbridge 06300a.sha256 pbif4x40 06300a.sha256 pbif8x10 06300a.sha256 pbifmrj  $\overline{0}6300a.sha256$ pbifsp2 06300a.sha256 pbif-ber-g3 06300a.sha256  $statsmrj_06\overline{3}00a.sha256$ xgmacsp2 06300a.sha256 xpp2x100 06300a.sha256  $xpp20x10g3_06300a.sha256$ xpp2x100g3 06300a.sha256 xpp4x40 06300a.sha256 xpp4x10g3 06300a.sha256 xpp8x10 06300a.sha256 xppmrj 06300a.sha256xppsp2 06300a.sha256 xppxsp2 06300a.sha256

### FPGA file names and supported modules

File Name	Supported Modules
pbif4x40_06300a.bin	4x40G modules
pbif8x10_06300a.bin	8x10G modules
pbifmrj_06300a.bin	24x1G and 48x1G modules
pbifsp2_06300a.bin	2x10G, 4x10G, 4x10G-x and 20x1G modules
statsmrj_06300a.bin	24x1G and 48x1G modules
xgmacsp2_06300a.bin	2x10G, 4x10G-x and 4x10G modules
xpp2x100_06300a.bin	2x100G modules (double-wide CFP-based module)
xpp4x40_06300a.bin	4x40G modules
xpp4x10g3_06300a.bin	4x10G modules
xpp8x10_06300a.bin	8x10G modules
xppmrj_06300a.bin	24x1G and 48x1G modules
xppsp2_06300a.bin	2x10G, 4x10G, and 20x1G modules
xppxsp2_06300a.bin	4x10G-x

pbif-ber-g3_06300a.bin	20x10G and 2x100G modules (-M and –X2)
xpp20x10g3_06300a.bin	20x10G modules
xpp2x100g3_06300a.bin	2x100G modules (half-slot CFP2-based module)
mbridge32_06300a.xsvf	MBRIDGE32
mbridge_06300a.xsvf	MBRIDGE
sbridge_06300a.mcs	Switch fabric modules
hsbridge_06300a.mcs	High speed switch fabric modules

### CER 2000 Series devices

ce06300a.sha256

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 R6.3.00a CER 2000 software upgrade

pbifmetro 06300a.sha256

-DIRECTORY /MIBS

ce06300a.mib

ce06300a\_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-CER06300a mnf.txt

CES-CER06300a mnf.sig

CES-CER06300a 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 R6.3.00a software upgrade

```
-NETIRON IRONWARE VER XMR-MLXV6.3.00a
-DIRECTORY /Boot/InterfaceModule
xmlprm05900.bin
-DIRECTORY /Boot/ManagementModule
xmprm05900.bin
# Application Images
-DIRECTORY /Combined/FPGA
lpfpga_npb_06300a.bin
-DIRECTORY /Combined/Application
xm06300a.bin
-DIRECTORY /Monitor/InterfaceModule
xmlb06200.bin
-DIRECTORY /Monitor/ManagementModule
xmb06200.bin
-DIRECTORY /Application/ManagementModule
xmr06300a.bin
-DIRECTORY /Application/InterfaceModule
xmlp06300a.bin
```

```
-DIRECTORY /FPGA/InterfaceModule
pbif4x40 06300a.bin 2.11
pbif8x10 06300a.bin 2.24
pbifmrj 06300a.bin 4.04
pbifsp2 06300a.bin 4.02
statsmrj 06300a.bin 0.09
xgmacsp2 06300a.bin 0.17
xpp2x100 06300a.bin 1.06
xpp4x40 06300a.bin 6.20
xpp4x10g3 06300a.bin 0.00
xpp8x10 06300a.bin 1.10
xppmrj 06300a.bin 1.03
xppsp2 06300a.bin 1.01
xppxsp2 06300a.bin 1.01
pbif-ber-g3 06300a.bin 2.11
xpp20x10g3 npb 06300a.bin 0.10
xpp2x100g3 npb 06300a.bin 0.10
-DIRECTORY /FPGA/ManagementModule
mbridge32 06300a.xsvf 36
mbridge 06300a.xsvf 37
sbridge 06300a.mcs 6
hsbridge 06300a.mcs 17
-END OF IMAGES
-DIRECTORY /Signatures
xmlprm05900.sig
```

xmprm05900.sig

xmlb06200.sig

xmb06200.sig

xmr06300a.sig

xmlp06300a.sig

lpfpga npb 06300a.sig

hsbridge 06300a.sig

mbridge\_06300a.sig

mbridge32 06300a.sig

sbridge 06300a.sig

pbif4x40 06300a.sig

pbif8x10 06300a.sig

pbifmrj 06300a.sig

pbifsp2 06300a.sig

pbif-ber-g3\_06300a.sig

statsmrj\_06300a.sig

xgmacsp2 06300a.sig

xpp2x100 06300a.sig

xpp20x10g3 npb 06300a.sig

xpp2x100g3 npb 06300a.sig

xpp4x40\_06300a.sig

xpp4x10g3 06300a.sig

xpp8x10 06300a.sig

xppmrj 06300a.sig

xppsp2 06300a.sig

xppxsp2\_06300a.sig

xmlprm05900.sha256

xmprm05900.sha256

xmlb06200.sha256

xmb06200.sha256

xmr06300a.sha256

xmlp06300a.sha256

lpfpga npb 06300a.sha256

hsbridge 06300a.sha256

mbridge 06300a.sha256

mbridge32 06300a.sha256

sbridge 06300a.sha256

pbif4x40\_06300a.sha256

pbif8x10 06300a.sha256

pbifmrj 06300a.sha256

pbifsp2 06300a.sha256

pbif-ber-g3 06300a.sha256

statsmrj 06300a.sha256

xgmacsp2 06300a.sha256

xpp2x100 06300a.sha256

xpp20x10g3\_npb\_06300a.sha256

xpp2x100g3 npb 06300a.sha256

xpp4x40 06300a.sha256

xpp4x10g3\_06300a.sha256

xpp8x10 06300a.sha256

xppmrj 06300a.sha256

xppsp2 06300a.sha256

xppxsp2 06300a.sha256

#### # MIBS:

-DIRECTORY /MIBS

xmr06300a.mib

xmr06300a std.mib

-DIRECTORY /Yang

ExampleXML.txt

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

-DIRECTORY

MLX\_npb\_06300a\_mnf.txt

MLX\_npb\_06300a\_mnf.sig

MLX\_npb\_06300a\_mnf.sha256

-DIRECTORY /Manuals

### FPGA file names for NPB and supported modules

File Name	Supported Modules
xpp20x10g3_npb_06300a.bin	20x10G modules FPGA for NPB
xpp2x100g3_npb_06300a.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 6.3.00a and later releases, a multiple step upgrade process is required. The multiple step upgrade process is not required for CER or CES.

#### Scenario 1

Customers running releases 05.9.00a, 05.6.00ga, 05.6.00h, 05.8.00e, 05.7.00e or subsequent releases can directly upgrade to NetIron 6.3.00a and later releases.

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

#### Scenario 2

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

- 1. Upgrade to 05.9.00a or any of the following releases: 05.6.00ga, 05.6.00h, 05.8.00e, 05.7.00e or subsequent patch releases and reload the device.
- 2. Upgrade to NetIron 6.3.00a (and later releases). Reload the device.

#### Scenario 3

To upgrade to NetIron 6.3.00a and later releases from releases prior to R05.6.00c, a multiple step approach is required.

- 1. Upgrade to 5.9.00a or any of the following releases: 05.6.00ga, 05.6.00h, 05.8.00e or 05.7.00e and reload the device.
- 2. Upgrade again to the same image which was used in step 1 and reload the device again. This ensures that the device will have the SHA256 signatures on the device if they are needed, for example for LP Auto-upgrade.
- 3. Upgrade to NetIron 6.3.00a or later releases, and reload the device.

### Scenario 4

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

- VxLAN header stripping
- GTP de-encapsulation
- Packet Timestamping

- Source port labeling
- NVGRE stripping
  - NetIron 6.3.00a UDA Enhancements
- 1. Upgrade to NetIron 6.3.00a and later releases using any of above scenarios based on the image from which the upgrade is being performed.
- 2. Reload the device again and verify that the system is up with NetIron 6.3.00a or later releases.
- 3. Configure the **fpga-mode-npb** command and save the configuration.
- 4. Upgrade to the NetIron 6.3.00a or later NPB image using MLX\_npb\_06300a\_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)
       : 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
```

### 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
                                                            Status
              Ports Starting MAC
M1 (left ):BR-MLX-MR2-X Management
Module
                                                            Standby (Ready
M2 (right):BR-MLX-MR2-X Management Module
State)
F1: NI-X-HSF Switch Fabric
Module
                                  Active
F2: NI-X-HSF Switch Fabric
Module
                                  Active
F3: NI-X-HSF Switch Fabric
                                  Active
S1: BR-MLX-10Gx8-X 8-port 10GbE (X)
                                                    8 0024.38a4.9
Module
                         CARD STATE UP
200
```

S2: BR-MLX-10Gx20 20 Module .9230	-port 1/10GbE CARD_STATE_UP	20	0024.38a4	
S3: BR-MLX-40Gx4-M 4 Module a4.9260	-port 40GbE CARD_STATE_UP	4	0024.38	
S4: BR-MLX-100Gx2-CF Module	P2 2-port 100GbE CARD_STATE_UP	2	0024.38a4.92	

#### OpenFlow upgrade and downgrade

When downgrading the system from NetIron 6.3.00a (and later releases) 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 NetIron 6.3.00a 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 he 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 <a href="https://extremeportal.force.com/">https://extremeportal.force.com/</a> (note that TSBs are generated for all Extreme platforms and products, so not all TSBs apply to this release).

### TSB issues resolved in NI 6.3.00a

TSB	Summary
None	

### TSB issues outstanding in NI 6.3.00a

TSB	Summary	
None		

# Closed with code changes NI6.3.00a

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 11/09/2018 in NetIron OS 6.3.00a.

Defect ID:	DEFECT000667280		
Technical Severity:	High	Probability:	Medium
Product:	NetIron OS	Technology Group:	BGP4 - IPv4 Border
			Gateway Protocol
Reported In Release:	NI 06.3.00	Technology:	Layer 3
			Routing/Network
			Layer
Symptom:	A peer BGP router terminates a BGP session with 'Malformed		
	Attribute List' error		
Condition:	Re-advertising routes that are received with "unknown" attributes		
Workaround:	1. Look for 'Malformed" BGP packets on the peer router side and		
	identify the prefixes with 'Malformed Attribute List'.		
	2. Define a BGP prefix-list filter to filter out these prefixes on the		
	inbound side from whe	re the prefixes are learn	ed from

# Closed with code changes NI6.3.00

**NOTE:** The NetIron 6.3.00 release (the image files and the documentation) is no longer available from the Extreme Portal. New software features introduced in release 6.3.00 are included in release 6.3.00a.

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 6.3.00.

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

Defect ID:	DEFECT000642455			
Technical Severity:	High	Probability:	Medium	
Product:	NetIron OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	NI 05.6.00	Technology:	OSPF - IPv4 Open	
			Shortest Path First	
Symptom:	Standby Management	Module may unexpecte	dly reload with the	
	following stack trace:-			
	Possible Stack Trace (function call return address list)			
	203afea4: nht_get_specific_index_from_pool(pc)			
	203b31fc: nht_create_new_entry_standby(lr)			
	203b31fc: nht_create_new_entry_standby			
	203b3d38: nht_standby_mp_update_entry			
	203b56a4: nht_standby_mp_process_dy_messages			
	2033a738: process_dy_change_packet			
	2032192c: ipc_process	s_messages		
	20322600: ipc_receive_packet			
	20f3cc70: sw_receive_packet			
	20f3d778: mp_rx_mai	n		
	00005e18: sys_end_ta	sk		

Condition:	It is observed rarely on a MLX/XMR device with OSPF, VRRP or MPLS
	combination

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

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

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

Defect ID:	DEFECT000646510		
<b>Technical Severity:</b>	High	Probability:	Medium
Product:	NetIron OS	Technology Group:	Monitoring

Reported In Release:	NI 06.0.00	Technology:	RAS - Reliability,
			Availability, and
			Serviceability
Symptom:	Unable to configure "speed-duplex 100-full" on CES/CER 1G port		
Condition:	On Optics E1MG-100BXD and E1MG-100BXU		

Defect ID:	DEFECT000646724			
Technical Severity:	High	Probability:	Medium	
Product:	NetIron OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	NI 06.0.00	Technology:	BGP4 - IPv4 Border	
			Gateway Protocol	
Symptom:	Traffic drop due to inc	Traffic drop due to increase in BGP convergence time		
Condition:	1. The device has	both BGP/OSPF configu	ration	
	2. BGP has (iBGP	BGP has (iBGP/eBGP) neighborship with more than 50		
	neighbor of routers wi	eighbor of routers with multiple policies configured for RIB-Out		
	processing	ocessing		
	<ol><li>OSPF is used a</li></ol>	OSPF is used as IGP for installing the BGP routes		
	4. OSPF path cha	nges by cost modificatio	ns or port down events	

Defect ID:	DEFECT000649540		
Technical Severity:	High	Probability:	Low
Product:	NetIron OS	Technology Group:	MPLS
Reported In Release:	NI 05.6.00	Technology:	IP over MPLS
Symptom:	Connectivity may be lost for 3 minutes when backup LSP path is down		
Condition:	1.The problematic prefix has to be learned from two different BGP		
	peers.		
	2.Both BGP peers should have equal IGP cost		
	3.Static NULLO drop route also configured for the next-hop		
	4.Backup LSP path is down		
Workaround:	Configure route-maps with MED to override the Static NULLO route		

Defect ID:	DEFECT000649776			
Technical Severity:	Medium	Probability:	Medium	
Product:	NetIron OS	Technology Group:	Management	
Reported In Release:	NI 06.0.00	Technology:	SNMP - Simple	
			Network	
			Management	
			Protocol	
Symptom:	Management Module	module may unexpected	lly reload with the	
	following stack trace:-			
	Possible Stack Trace (fu 20adcd84:	unction call return addre	ss list)	
		_aggregate_optical_mon	parameter(pc)	
	20ade1e8: cu_get_aggregate_optical_parameter_from_object(lr) 20ade1e8: cu_get_aggregate_optical_parameter_from_object			
	208a98b4: snlfOpticalMonitoringInfoEntry get value			
	208a9e2c: snlfOpticalMonitoringInfoEntry next			
	209642f4: SNMP_Process_Bulk_Redo			
	20966fb4: SNMP_Continue_function			
	20967088: process_packet_two			
	2096751c: process_packet_one			
	20967868: Process_Rcvd_SNMP_Packet_Async			
	20965504: Process_Re	ceived_SNMP_Packet		
	209919a4: snmp_recei	_		
		recv_callback_common		
	209944ac: snmp_udp_	<del>-</del>		
	20ba0540: itc_process			
	20ba09ec: itc_process_	_msgs		
	2099101c: snmp_task			
	00005e18: sys_end_ta			
Condition:		ocade (Flex Optix) CFP2-	QSFP28 adapter on a	
	2x100G-CFP2 Linecard	module		

Defect ID:	DEFECT000649996		
Technical Severity:	High	Probability:	Low
Product:	NetIron OS	Technology Group:	Management
Reported In Release:	NI 06.0.00	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	VRRP-E session state changes unexpectedly		
Condition:	Polling SNMP table: IldpRemTable (.1.0.8802.1.1.2.1.4.1)		
Workaround:	Disable SNMP polling for the table: IldpRemTable		
	(.1.0.8802.1.1.2.1.4.1)		

Defect ID:	DEFECT000650682		
Technical Severity:	Medium	Probability:	Low
Product:	NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 05.6.00	Technology:	OSPF - IPv4 Open
			Shortest Path First
Symptom:	OSPF ECMP route for s	ome of external destinat	ions may not be
	installed into the routing table of non-translator NSSA ABR.		
Condition:	(1) Atleast two NSSA ABRs present in the OSPF network		
	(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.		

Defect ID:	DEFECT000651122				
Technical Severity:	High	Probability:	Low		
Product:	NetIron OS	Technology Group:	Layer 3		
			Routing/Network		
			Layer		
Reported In Release:	NI 06.0.00	Technology:	ARP - Address		
			Resolution Protocol		
Symptom:	Line card module may	unexpectedly reload wit	th the following stack		
	trace:-				
	Possible Stack Trace (fo	unction call return addre	ess list)		
	20f0839c: fpip_process	s_pending_packets(pc)			
	20f08398: fpip_process_pending_packets(Ir)				
	20f039d0: fpip_update_host_cache_entry				
	20f03b4c: fpip_update_host_cache_in_all_vrf				
	20f19544: arp_process_one_entry_pram_update				
	20d1e178: lp_cam_update_arp_entry_pram				
	20e23fb0: process_one_arp_update_lp				
	20f176ec: process_one_arp_update				
	20f17950: process_arp_dy_messages				
	20bd5818: process_dy				
	20c1ca54: ipc_multi_n	-			
	20c1efc8: ipc_process_	- •			
	20c1f7a4: ipc_receive_	<b>-</b> '			
	20036ce4: ge_process	_ipc_data_msg			
	207f4f20: lp_ipc_task				
	00040158: sys_end_ta				
Condition:		ring a Line card bootup	or a link flap between		
	MCT clusters				

Defect ID:	DEFECT000651855				
Technical Severity:	Medium	Probability:	Medium		
Product:	NetIron OS	Technology Group:	Monitoring		
Reported In Release:	NI 06.0.00	Technology:	OAM - Operations,		
			Admin &		
			Maintenance		
Symptom:	2x100G-CFP2 Linecard module may unexpectedly reload with the				
	following stack trace:-				
	Possible Stack Trace (fu	unction call return addre	ess list)		
	00069064: assert_dob	ule_free_large_memory	(pc)		
	0006905c: assert_dobเ	ule_free_large_memory	(lr)		
	00069274: free_memo	· <del>-</del> ·			
	00069918: free_memo	ry			
	00065e80: dev_free_m	nemory			
	00005024: xsyscall				
	2000105c: free				
	21610cb8: bcm_pm_if_cleanup				
	20026928: bcm_82790_uninit				
	209cd328: phy_adapter_removed				
	209b946c: phy_conn_check_existence				
	20a4086c: port_read_physical_existance				
	20a309ec: port_check_port_status				
	20a34900: port_link_st	<del>-</del> -			
	20a34404: port_status	<del></del> '			
	200058c0: perform_ca				
	200062c8: timer_timed				
	00040160: sys_end_en	itry			
	0005e4a0: suspend				
	0005cf78: dev_sleep				
	00005024: xsyscall				
	207f3af4: main	.1			
	00040158: sys_end_tas				
Condition:	_	Brocade (Flex Optix) CFI	P2-QSFP28 adapter		
	from the 2x100G-CFP2	Line card module			

Defect ID:	DEFECT000651862		
Technical Severity:	Medium	Probability:	Low
Product:	NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 06.1.00	Technology:	IP Addressing
Symptom:	Traffic loss might be observed on MLX with Q-in-Q configuration		
Condition:	1. MRP should be configured on outer VLAN of Q-in-Q		
	2. Physical loopback connection should be established between two		
	interfaces where one interface belongs to outer VLAN and other		
	interface belongs to in	ner VLAN of Q-in-Q	

Defect ID:	DEFECT000651950			
Technical Severity:	Medium	Probability:	Low	
Product:	NetIron OS	Technology Group:	Management	
Reported In Release:	NI 06.0.00	Technology:	CLI - Command Line Interface	
Symptom:	stack trace:- Possible Stack Trace (fu 54797064: (pc) 20ac71d8: cu_show_in 20ad8e04: cu_show_in 2044cc58: show_int_la 202e8754: call_action_202e924c: parse_node 202e8cc8: parse_node 202e8cc8: parse_node 202e8cc8: parse_node 202e9514: parse_node 202e9514: parse_node 2035cd28: parse_input 2041c358: cli_aaa_accc 207906c0: aaa_accoun 2041bbac: cli_request_202e913c: parse_node 202e7790: parser 2035cd04: parse_input 20a94a74: ssh_event_l 20a97ccc: ProcessChar 20a688: ProcessClier 20aade20: ShFiniteStat 209b03cc: HandleProte 209b01ac: HandleConr 20a93d90: ssh_socket_20a96a2c: ssh_receive_20a96a2c: ssh_receive_20a96a2c: ssh_receive_20ad8e0.	at_lag ag_all func  _recurse e _recurse e counting_callback ting_start _command_accounting  chandler anelData dessage atlnputData teMachine accolAction acctionTask tion_task _control _data_ready ceive_data_ready_callbace amsgs_internal _msgs _msgs	ess list)	
Condition:		executed frequently fro	om one or more SSH	
	sessions			

Defect ID:	DEFECT000652160		
Technical Severity:	Medium	Probability:	Low
Product:	NetIron OS	Technology Group:	Management
Reported In Release:	NI 06.0.00	Technology:	CLI - Command Line
			Interface
Symptom:	stack trace:- Possible Stack Trace (fu 202e3aec: generic_ma 20bb6784: mplp_get_l 20ba0540: itc_process 20ba09ec: itc_process 20bb8020: lp_agent_ta 00005e18: sys_end_tas	p_data_request(lr) p_data_request p_data_request _msgs_internal _msgs ask sk	ess list)
Condition:	"Show interface lag" is	executed frequently fro	om one or more SSH
	sessions		

Defect ID:	DEFECT000652191		
Technical Severity:	High	Probability:	Medium
Product:	NetIron OS	Technology Group:	Layer 2 Switching
Reported In Release:	NI 06.0.00	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	MAC table synchronization may not be complete for MCT cluster		
	nodes		
Condition:	Line card module goes into a rolling reboot for any known/other		
	reasons		

Defect ID:	DEFECT000653000		
Technical Severity:	High	Probability:	Medium
Product:	NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 06.0.00	Technology:	IPv6 Addressing
Symptom:	IPV6 neighbor stuck in PROBE state		
Condition:	1. Connect the host with MLX and establish neighbors		
	2. Remove connected host		
	3. IPV6 entries are not removed and stuck in PROBE state		
Recovery:	clear ipv6 neighbors		

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

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

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

Defect ID:	DEFECT000655172		
Technical Severity:	Medium	Probability:	Medium
Product:	NetIron OS	Technology Group:	Monitoring
Reported In Release:	NI 05.8.00	Technology:	Hardware Monitoring
Symptom:	The 'show chassis' may display incorrect information for available		
	power and power status fields		
Condition:	Power-off power supply manually		
	(OR)		
	Remove and re-insert t	he power cord.	

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

Defect ID:	DEFECT000656359		
Technical Severity:	Medium	Probability:	Low
Product:	NetIron OS	Technology Group:	Management
Reported In Release:	NI 06.1.00	Technology:	CLI - Command Line
			Interface
Symptom:	Following error message may be observed on LP Console		
	kbp_duplicate_entry_IPVPN[0] idx : 0x00218021 tbl_id : 32 vpn_id =		
	4097, pfx : a.b.c.d/32		
Condition:	1. Configure CAM in amod mode		
	2. Configure a loopback interface		
	3. Configure a VRF in VE interface		
	4. Remove and re-add	VRF in VE interface	

Defect ID:	DEFECT000656781		
Technical Severity:	Medium	Probability:	Medium
Product:	NetIron OS	Technology Group:	Management
Reported In Release:	NI 06.0.00	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	SNMP may display a maximum number 4294967295 when polled for		
	this object fdryVplsEndPoint2InnerTag		
Condition:	VPLS endpoints are cor	nfigured with no inner ta	g

Defect ID:	DEFECT000656819				
Technical Severity:	Medium	Probability:	Medium		
Product:	NetIron OS	Technology Group:	Management		
Reported In Release:	NI 06.2.00	Technology:	CLI - Command Line		
			Interface		
Symptom:	The 'show optic' comm	and may display optic da	ata as N/A even		
	though the port is up li	ke below:-			
	MLX2#sh optic 1				
	Port Temperature Tx	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			
Condition:	1. Line card module is 20x10G.				
	2. Dual mode optic is connected and speed is configured as 1G.				
	3. Line card is reloaded with 1G speed configuration.				
Recovery:	The only recovery to correct the display issue is to reset line card by				
	following below steps:-				
	1. Remove 1G configur	ation and reload line car	d module.		
	2. After boot up reappl	y the configuration.			

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

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

Defect ID:	DEFECT000657929		
Technical Severity:	Medium	Probability:	Medium
Product:	NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 06.2.00	Technology:	OSPFv3 - IPv6 Open
			Shortest Path First
Symptom:	OSPFv3 Interface numb	per may not be displayed	correctly in "show
	log" output like below:-		
	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		
Condition:	Enable/Disable OSPFv3 interface followed by the execution of "show		
	ipv6 ospf neighbors"		

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

Defect ID:	DEFECT000658072		
Technical Severity:	Low	Probability:	Medium
Product:	NetIron OS	Technology Group:	Security
Reported In Release:	NI 06.0.00	Technology:	PBR - Policy-Based
			Routing
Symptom:	GTP-u packet with L3 header as IPV4 and L4 header as IPv6 not		
	forwarded with the IPv6 PBR on GTP port		
Condition:	Configure IPv6 PBR and enable ingress-inner-filter on GTP port		
Workaround:	Configure any IPv4 PBR with IPv6 PBR and bind it to the same GTP		
	port		

Defect ID:	DEFECT000658203			
Technical Severity:	High	Probability:	Low	
Product:	NetIron OS	Technology Group:	Management	
Reported In Release:	NI 06.0.00	Technology:	Configuration	
•			Fundamentals	
Symptom:	Management Module may reload unexpectedly with the following			
	stack trace:-			
	Exception Type 1100 (I	OTLB Load), telnet_0		
	0008f030: msr			
	00000000: dar			
	00000000: dsisr			
	202ed8dc: next_token	••		
	202f0af8: parse_node(	lr)		
	202f0af8: parse_node			
	202f04f0: parse_node_recurse			
	202f0d3c: parse_node			
	202f04f0: parse_node_recurse			
	202f0d3c: parse_node			
	20364838: parse_input			
	2042a7e0: cli_aaa_accounting_callback			
	2079f290: aaa_accounting_start			
	2042a034: cli_request_command_accounting 202f0964: parse_node			
	202eefb8: parser			
	20364814: parse_inpu	ŧ		
		/ line from telnet clier	nt	
	20a91408: telnet_appl			
	20a94814: telnet rece	<del>-</del>		
	20a93240: telnet sock	<b>-</b> -		
	20a97ee0: telnet_rece	<b>—</b>		
	20a97f24: telnet_tcp_i	receive_data_ready_call	back	
	20ba3844: itc_process_msgs_internal			
Condition:	1. 'aaa accounting com	mands 0 default start-st	op' is configured	
	2. Debug destination is			
	3. 'no telnet server' is i	ssued on the same TELN	ET session	

Defect ID:	DEFECT000658216				
Technical Severity:	High	Probability:	Low		
Product:	NetIron OS	Technology Group:	Management		
Reported In Release:	NI 05.4.00	Technology:	CLI - Command Line		
			Interface		
Symptom:	Active Management Module may unexpectedly reload with the				
	following stack trace:-				
	2018052c: print_prompt(pc)				
	2017d6e0: print_prom	pt(lr)			
	2031f718: prompt_and				
	20390ac4: internal_rel	ease_page_mode			
	20390c2c: release_pag	ge_mode			
	2038fa90: parse_input	•			
	2094b848: ssh_event_handler				
	2095a0e8: ProcessChannelData				
	20958304: ShProcessMessage				
	2095f664: ProcessClientInputData				
	2095eed8: ShFiniteStateMachine				
	208845a0: HandleProtocolAction				
	20884d84: HandleReceive				
	20884ca4: HandleWaitingForReceive				
	20884448: HandleCon				
	2094a5bc: ssh_connec	_			
	2094ad3c: ssh_socket_				
	2094d4b4: ssh_receive	'			
		ceive_data_ready_callbac	ck		
	20a24f54: itc_process_				
	20a2528c: itc_process_msgs				
	20946a04: ssh_in_task				
	00005e18: sys_end_task				
Condition:	,	ce ve? command for VE i	nterface id with higher		
	value				

Defect ID:	DEFECT000658409			
Technical Severity:	Medium	Probability:	Low	
Product:	NetIron OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	NI 06.0.00	Technology:	BGP4 - IPv4 Border	
			Gateway Protocol	
Symptom:	BGP doesn't advertise component routes after applying the			
	'unsuppress-map' configuration			
Condition:	(1) BGP configured with 'router bgp' command			
	(2) 'aggregate-address	command configured t	o advertise the	
	summary route for all	the component routes t	hat fall within the	
	summary address			
	(3) Configure compone	ent routes with network	command and apply	
	the unsuppress-map command to the neighbors for which			
	component routes need to be advertised			
Recovery:	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.			

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

Defect ID:	DEFECT000658728		
Technical Severity:	High	Probability:	Medium
Product:	NetIron OS	Technology Group:	MPLS
Reported In Release:	NI 05.8.00	Technology:	MPLS VPLS - Virtual
			Private LAN Services
Symptom:	Line card may reload u	nexpectedly with the fol	lowing stack trace:-
	Possible Stack Trace (fu	inction call return addre	ss list)
	20f75174: traverse_all	_ports_for_local_interfa	ce(pc)
	20f75084: traverse_all_ports_for_local_interface(lr)		
	20df9abc: lp_vpls_dy_sync_tlv_port_config		
	20df7050: lp_vpls_dy_sync_tlv_process_dy_messages		
	20bb6718: process_dy_change_packet		
	20bfba30: ipc_multi_module_handler		
	20bfdcf0: ipc_process_messages		
	20bfe4b0: ipc_receive_	_packet	
	20034390: ge_process	_ipc_data_msg	
	207eeac8: lp_ipc_task		
	00040158: sys_end_task		
Condition:	1. Port has to be configured as a tagged port in the VPLS VLAN		
	2. Delete the port from	the VPLS VLAN using th	is CLI "no tagged eth
	<slot port="">"</slot>		

Defect ID:	DEFECT000658936		
Technical Severity:	High	Probability:	Low
Product:	NetIron OS	Technology Group:	Management
Reported In Release:	NI 05.8.00	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	SNMP task may cause High CPU		
Condition:	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)		

Technical Severity:   Medium   Probability:   Medium   Traffic Management	Defect ID:	DEFECT000658954			
Product: Netlron OS   Technology Group: Traffic Management   Reported In Release: NI 06.0.00   Technology: Traffic Queueing and Scheduling					
Symptom:  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: Possible Stack Trace (function call return address list) 0002f89c; get_memory_pool_info(pc) 00005024: xsyscall(lr) 00006558: set_memory_pool_onfo(pc) 0002e40: allocate_memory_pool 0002e40: allocate_memory_pool 0002e40: allocate_memory 0002b124: dev_allocate_memory 00005024: xsyscall 20310560: os_malloc_zero 20b9eda0: itc_alloc_request_internal 20ba14e8: itc_send_request_and_wait_internal 20ba14e8: itc_send_request_and_wait_internal 20ba260: itc_send_request_and_wait_internal 20ba3690: itc_process_msgs_internal 20ba3690: itc_process_msgs_internal 20ba14e8: itc_send_request_and_wait_internal	•		•		
Symptom:  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: Possible Stack Trace (function call return address list) 0002f89c; get_memory_pool_info(pc) 00005024: xsyscall(lr) 000b6558: set_memory_histogram 0002e140: allocate_memory 0002e140: 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 20ba14e8: 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 20ba14e8: itc_send_request_and_wait_internal 20ba14e8: itc_send_request_and_wait_internal 20ba16e8: itc_process_msgs_internal 20ba069c: itc_process_msgs_internal 20ba16e8: itc_process_msgs_internal 20ba16e8: itc_send_request_and_wait_internal			• • • • • • • • • • • • • • • • • • • •		
than or equal to 100 msec and Management Module may unexpectedly reload with the following stack trace: Possible Stack Trace (function call return address list) 0002f89c: get_memory_pool_info(pc) 00005024: xsyscall(lr) 000b6558: set_memory_histogram 0002e140: allocate_memory 0002e140: 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_tre_non_empty 20037eec: show_tech_support 2035ed7c: timer_callback_wrapper 20ba069c: itc_process_msgs_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 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 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 20ba14e8: itc_send_request_and_wait 20f1a2c: bfd_scb_send_itc 205490a8: show_tm_non_empty 20037eec: show_tech_support 2035ed7c: timer_callback_wrapper 20ba069c: itc_process_msgs_internal 20ba14e8: itc_send_request_and_wait_internal	Reported III Release.	NI 00.0.00	reciliology.	_	
unexpectedly reload with the following stack trace: Possible Stack Trace (function call return address list)  0002f89c: get_memory_pool_info(pc)  00005024: xsyscall(lr)  000b6558: set_memory_histogram  0002e140: allocate_memory_pool  0002e440: allocate_memory  0002b124: dev_allocate_memory  0005024: 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_itc  205490a8: show_ten_on_empty  20037eec: show_tech_support  2035ed7c: timer_callback_wrapper  20ba069c: itc_process_msgs_internal  20ba1448: itc_send_request_and_wait_internal  20ba1448: itc_send_request_and_wait  20f1a22c: bfd_scb_send_itc  205490a8: show_ten_non_empty  20037eec: show_tech_support  2035ed7c: timer_callback_wrapper  20ba069c: itc_process_msgs_internal  20ba1448: itc_send_request_and_wait_internal  20ba1448: itc_send_request_and_wait_internal  20ba1448: itc_send_request_and_wait  20f1a22c: bfd_scb_send_itc  205490a8: show_ten_non_empty  20037eec: show_tech_support  2035ed7c: timer_callback_wrapper  20ba069c: itc_process_msgs_internal  20ba1448: itc_send_request_and_wait  20f1a22c: bfd_scb_send_itc  205490a8: show_ten_support  2035ed7c: timer_callback_wrapper  20ba069c: itc_process_msgs_internal  20ba1448: itc_send_request_and_wait_internal	Symptom:	Protocols may flap when configured with very low timeout value less			
Possible Stack Trace (function call return address list) 0002f89c; get_memory_pool_info(pc) 00005024: xsyscall(lr) 000b6558: set_memory_histogram 0002e140: allocate_memory 0002e140: 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_ten_support 2035eefc: show_tech_support 2036ed7c: timer_callback_wrapper 20ba069c: itc_process_msgs_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 20ba14e8: itc_send_request_and_wait_internal 20ba14e8: itc_send_request_and_wait_internal 20ba0f44: itc_send_request_and_wait_internal 20ba14e8: itc_send_request_and_wait_internal 20ba164e8: itc_send_request_and_wait_internal 20ba16e8: itc_process_msgs_internal 20ba16e8: itc_process_msgs_internal 20ba16e8: itc_send_request_and_wait_internal					
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1. UDLD is configured with 100ms timeout by configuration command 'link-keepalive interval 1' 2. when any one of the following command is executed 'show tech', 'show tm non-empty-queues' or 'show tm non-empty-queues detail'		20037eec: show_tech_support
'link-keepalive interval 1' 2. when any one of the following command is executed 'show tech', 'show tm non-empty-queues' or 'show tm non-empty-queues detail'		Call stack too deep!
2. when any one of the following command is executed 'show tech', 'show tm non-empty-queues' or 'show tm non-empty-queues detail'	Condition:	1. UDLD is configured with 100ms timeout by configuration command
'show tech', 'show tm non-empty-queues' or 'show tm non-empty-queues detail'		'link-keepalive interval 1'
queues detail'		· · · · · · · · · · · · · · · · · · ·
'		'show tech', 'show tm non-empty-queues' or 'show tm non-empty-
Workaround: Increase the Protocol timer expiry value accordingly.		queues detail'
	Workaround:	Increase the Protocol timer expiry value accordingly.

Defect ID:	DEFECT000659364		
Technical Severity:	High	Probability:	Medium
Product:	NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 06.0.00	Technology:	BGP4 - IPv4 Border
			Gateway Protocol
Symptom:	static routes may not be advertised into BGP		
Condition:	1. BGP neighborship is established with the neighbor		
	2. "filter-change-update-delay 0" is configured		
	3. static routes are configured and redistributed into BGP		
	4. reload the chassis		
Recovery:	clear ip route a.b.c.d/x		

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

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

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

Defect ID:	DEFECT000659772			
Technical Severity:	High	Probability:	Low	
Product:	NetIron OS	Technology Group:	Monitoring	
Reported In Release:	NI 06.0.00	Technology:	Hardware Monitoring	
Symptom:	Fiber Version of CES/CER may power down			
Condition:	Very rarely switch models of NI CER-2024F-4X and NI CES-2024F-4X			
	may power down and	doesn't come UP		
Workaround:	Configure the following fan-threshold parameters.			
	CES2024F-4X#show fan-threshold			
	=== Thermal Sensor Co	ontrol Block		
	(THERMAL_SENSOR_TI			
	Fan Speed Low: -1 - 52			
	Fan Speed Med: 48 - 5			
	Fan Speed Med-Hi: 53	- 60		
	Fan Speed Hi: 57 - 90			
	max_ts_shut_off_cour	nt = 1		
	shut_off_count = 0 0			
	=== Thermal Sensor Co			
	(THERMAL_SENSOR_TI			
	1	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_cour	it = 1		
	shut_off_count = 0 0	untural District		
	=== Thermal Sensor Control Block (THERMAL_SENSOR_TEST_RULE_PPCR2) ===			
	Fan Speed Low: -1 - 52 Fan Speed Med: 48 - 56			
	Fan Speed Med-Hi: 53			
	Fan Speed Hi: 57 - 100	00		
	max_ts_shut_off_cour	nt = 1		
	shut_off_count = 0 0	1		
	=== Thermal Sensor Co	ontrol Block		
	(THERMAL SENSOR TI			
	Fan Speed Low: -1 - 52	'		
	Fan Speed Med: 48 - 5			
	Fan Speed Med-Hi: 53			
	Fan Speed Hi: 57 - 100			
	max_ts_shut_off_cour	nt = 1		
	shut_off_count = 0 0			

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

Defect ID:	DEFECT000660088			
Technical Severity:	High	Probability:	Low	
Product:	NetIron OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	NI 06.0.00	Technology:	BGP4 - IPv4 Border	
			Gateway Protocol	
Symptom:	Line card may reload u	nexpectedly with the fol	lowing stack trace:-	
	Possible Stack Trace (fu	unction call return addre	ss list)	
	21672168: memcpy(po	:)		
	211fe30c: kbp_memcp			
	20b5bf9c: kbp_npxxpt	_compare_data		
	20b5b504: kbp_npxxpt			
	20b5b300: kbp_npxxpt			
	21547c34: kbp_xpt_se			
	21546500: kbp_dm_12			
	2152ca78: device_compare			
	2152dcd0: kbp_instruction_search			
	21599064: NlmNsTrieCheckAndFixRpt			
	215990f8: NlmNsTrie_			
	21599114: NlmNsTrie_			
	21599114: NlmNsTrie_			
	21599114: NlmNsTrie_			
	_	21599114: NlmNsTrieFindIptUnderRpt		
	21599114: NlmNsTrieFindlptUnderRpt			
	21599114: NlmNsTrie_			
	21599114: NlmNsTrie_			
	21599114: NlmNsTrie_			
	21599180: NlmNsTrie_	<u> </u>		
	21599190: NlmNsTrie_			
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	21599190: NlmNsTrie_	•		
	21599190: NlmNsTrie_	FindRptEntries		

	21599190: NlmNsTrie FindRptEntries		
	·		
	215992d4: NlmNsTrieSearchAndRepairRpt		
	215a7988: kbp_ftm_search_and_repair_rpt		
	215881bc: kbp_lpm_db_advanced_search_and_repair		
	215bab14: kbp_device_advanced_fix_errors		
	21534f38: kbp_device_12k_fix_parity_errors		
	2152a538: kbp_device_fix_errors		
	20b5561c: netroute_ifsr_fix_errors		
	20ac956c: nlcam_ifsr_netroute_scan_errors		
	20ac8b90: nlcam_ifsr_fifo_poll		
	200058c0: perform_callback		
	200062c8: timer_timeout		
	00040160: sys_end_entry		
	0005e4a0: suspend		
	0005cf78: dev_sleep		
	00005024: xsyscall		
	207f3af4: main		
	00040158: sys_end_task		
Condition:	Rarely observed during the execution of 'clear BGP neighbor'		
	command when software is trying to fix a CAM error at the same time		
Workaround:	To disable soft repair feature through CLI 'cam ifsr disable'		

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

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

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

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

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

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

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

Defect ID:	DEFECT000661318		
Technical Severity:	Medium	Probability:	Low
Product:	NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 06.0.00	Technology:	BGP4 - IPv4 Border
			Gateway Protocol
Symptom:	BGP Route Reflector does not reflect VPNv4 or VPNv6 routes to		
	reflector clients		
Condition:	1. Routes should be learned in BGP Route Reflector for address family		
	VPNv4 or VPNv6		
	2. Execute 'clear ip bgp vpnv4 neighbor <neighbor-ip> soft-outbound'</neighbor-ip>		
	in BGP Route Reflector	•	
Recovery:	'clear ip bgp neighbor	<neighbor-ip>' in BGP Ro</neighbor-ip>	ute Reflector

Defect ID:	DEFECT000661401			
Technical Severity:	High	Probability:	Medium	
Product:	NetIron OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	NI 06.0.00	Technology:	OSPFv3 - IPv6 Open	
			Shortest Path First	
Symptom:	OSPFv3 and IPV6 neigh	borship not formed with	remote VPLS peer	
Condition:	Remote vpls peer confi	Remote vpls peer configured with IPv6 on OSPFv3 interface with		
	MPLS ttl policy applied			
Workaround:	Either of the following can be applied			
	1. Remove the commands `vrf-propagate-ttl and label-propagate-ttl			
	enabled? under 'router mpls' configurations			
	or			
	2. Configure static ipv6	neighbors		

Defect ID:	DEFECT000661413			
Technical Severity:	Medium	Probability:	Low	
Product:	NetIron OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	NI 05.6.00	Technology:	BGP4 - IPv4 Border	
			Gateway Protocol	
Symptom:	CES/CER device may ur	nexpectedly reload with	the following stack	
	trace:-			
	Possible Stack Trace (fu	unction call return addre	ess list)	
	20069c74: update_nh_	_hw_resource(pc)		
	20069b24: update_nh_	_hw_resource(lr)		
	20069fd8: write_nh_h	<b>-</b> '		
	200731c0: update_nh_	· -		
	20069348: update_next_hop_entry			
	2006b0d0: update_bac	<b>—</b>		
	2006b80c: mark_route_info_changed			
	2048dc58: lp_cam_update_arp_entry_pram			
	205bb284: process_one_arp_update_lp			
	20591dd0: process_one_arp_update			
	205920ec: process_arp_dy_messages			
	2034b01c: process_dy_			
	2037facc: ipc_multi_m	<del>-</del>		
	2038222c: ipc_process	_ ~		
	203829ec: ipc_receive_	<b></b> '		
	2037d308: ge_process			
	2037d690: ge_process			
	200b962c: metro_sys_	loop		
	200af638: main	.1		
<b>a</b> 1:::	00040158: sys_end_tas		f.i. p.cp.c. i	
Condition:		CER is configured as on	e of the BGP Speaker	
	and processing ARP up	date messages		

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

Defect ID:	DEFECT000661617				
Technical Severity:	High	Probability:	Low		
Product:	NetIron OS	Technology Group:	Layer 3		
			Routing/Network		
			Layer		
Reported In Release:	NI 05.8.00	Technology:	OSPF - IPv4 Open		
			Shortest Path First		
Symptom:	Active Management m	odule may unexpectedly	reload with the		
	following stack trace:-				
	20ff077c: ospf_find_neighbor_from_grace_lsa(pc)				
	2104293c: age_the_link_state_database_entry(lr)				
	2104293c: age_the_link_state_database_entry				
	21041e0c: ospf_process_age_lsdb_entry				
	21041144: ospf_router_timer				
	2100a244: ospf_timer_	_callback			
	20b16280: itc_process	_msgs_internal			
	20b16720: itc_process	_msgs			
	2100a5b8: ospf_task				
	00005e18: sys_end_ta	sk			
Condition:	Occurs very rarely whe	n the OSPF process is re	started from a		
	problematic neighborii	ng device to recover			

Defect ID:	DEFECT000661713			
Technical Severity:	High	Probability:	Low	
Product:	NetIron OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	NI 06.2.00	Technology:	IPv6 Addressing	
Symptom:	Line card module may	reload unexpectedly wit	h the following stack	
	trace:-			
	20a1cc64: ppcr_tx_pac	cket(pc)		
	20a1d658: ppcr_tx_hel	ld_packet(lr)		
	20a1d658: ppcr_tx_hel	ld_packet		
	20fd8ce4: nd6_forward	d_ppcr_pending_pkt		
	20fd940c: nd6_process	s_all_pending_packets		
	20fd7a40: nd6_delete_	_neighbor_entry_from_c	cache	
	20fbc928: nd6_slave_incomplete_nei_aging_handler			
	20fbcad4: nd6_slave_incomplete_nei_aging			
	20fbc9b4: nd6_slave_timer			
	20fb90b8: ipv6_slave_timer			
	20005a74: perform_ca			
	2000647c: timer_timed			
	00040160: sys_end_en	try		
	0005e4a0: suspend			
	0005cf78: dev_sleep			
	00005024: xsyscall			
	207f1664: main			
	00040158: sys_end_task			
Condition:		large number of incomp	olete ND6 (IPv6	
	neighbor discovery) en	tries		

Defect ID:	DEFECT000661716		
Technical Severity:	Medium	Probability:	Medium
Product:	NetIron OS	Technology Group:	Monitoring
Reported In Release:	NI 05.8.00	Technology:	sFlow
Symptom:	Extended MPLS VC data and Switch data's outgoing 802.1q VLAN may		
	not be observed in SFLOW forwarded packets		
Condition:	SFLOW enabled for VPI	LS local switched packets	5

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

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

Defect ID:	DEFECT000661859		
Technical Severity:	Medium	Probability:	Medium
Product:	NetIron OS	Technology Group:	Layer 2 Switching
Reported In Release:	NI 06.3.00	Technology:	LAG - Link
			Aggregation Group
Symptom:	For LACP based LAG de	ployment, user might of	serve that the device
	connected to NI device	is not showing LAG mer	nber interface in
	down/Blocked state wl	nile 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.		
Condition:	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.		
Workaround:	To Avoid the behavior, user should configure same key on device		
	connected to NI device		
Recovery:	User should configure :	same key on device conr	nected to NI device.and
	LACP Lag should recove	er from this situation.	

Defect ID:	DEFECT000661906		
Technical Severity:	High	Probability:	Low
Product:	NetIron OS	Technology Group:	Traffic Management
Reported In Release:	NI 06.0.00	Technology:	Rate Limiting and Shaping
Symptom:	Unexpected traffic loss in transit node with Class 0 Remap index updated as "54" instead of "0" in the following rate-limit output :- LP#dm rate-limit ppcr 0 0 : : Class Bound CIR CBS ACCRT EIR EBS ACERT Remap Remark		
Condition:	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.  ex:  conf t  policy-map rl-icmp  cir 993568 cbs 2000000  end  conf t  ip receive access-list 192 sequence 30 policy-map rl-icmp  end		

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

Defect ID:	DEFECT000662137		
Technical Severity:	Medium	Probability:	Medium
Product:	NetIron OS	Technology Group:	IP Multicast
Reported In Release:	NI 06.2.00	Technology:	PIM - Protocol-
			Independent
			Multicast
Symptom:	Pim (*,G) entries formed in default vrf are also observed in non-		
	default vrf mcache table		
Condition:	On executing the comr	nand `clear ip pim vrf <v< th=""><th>rf-name&gt; mcache?</th></v<>	rf-name> mcache?

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

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

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

Defect ID:	DEFECT000663296		
Technical Severity:	High	Probability:	Low
Product:	NetIron OS	Technology Group:	Traffic Management
Reported In Release:	NI 06.0.00	Technology:	Rate Limiting and
			Shaping
Symptom:	Traffic loss may be obs	erved with Rate-limit po	licy
Condition:	counters? multiple tim limit policy. ex:     conf t     policy-map aaaaa     cir xxxxxxx cbs yyy end conf t	io and happens on exectes when IP Receive ACL	configured with Rate-

## Closed without code changes NI6.3.00

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 6.3.00.

Defect ID:	DEFECT000602148	Technical Severity:	Medium
Reason Code:	Not Reproducible	Probability:	High
Product:	Brocade NetIron OS	Technology Group:	Layer 2 Switching
Reported In Release:	NI 06.0.00	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	When Local CCEP goes	DOWN and comes UP or	n 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.		
Condition:	Condition:		
	BFD configured on MCT cluster device for static routes.		
	Trigger:		
	When Local CCEP goes DOWN and comes UP again on MCT cluster		
	device, this issue could occur.		
Recovery:	execute "clear bfd neighbors x.x.x.x" on the device where this issue is		
	observed		

Defect ID:	DEFECT000644706	Technical Severity:	High
Defect ID:	DEFECT000644706	rechnical Severity:	High
Reason Code:	Not Reproducible	Probability:	Low
Product:	Brocade NetIron OS	Technology Group:	IP Multicast
Reported In Release:	NI 06.0.00	Technology:	PIM6 - IPv6 Protocol-
			Independent
			Multicast
Symptom:	Customer can notice traffic loss for IPv6 multicast traffic.		
Condition:	When both IPv4 and IPv6 multicast traffic is running and IPv6		
	multicast routes are cleared using "clear ipv6 pim cache".		

Defect ID:	DEFECT000649337	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	Brocade NetIron OS	Technology Group:	IP Multicast
Reported In Release:	NI 06.2.00	Technology:	IPv4 Multicast
			Routing
Symptom:	User may observe drop in the traffic which is getting forwarded on an		
	IPSEC tunnel		
Condition:	This issue may be seen when failover happens for IPSEC tunnel		

Defect ID:	DEFECT000653077	Technical Severity:	High
Reason Code:	Already Fixed in	Probability:	Medium
	Release		
Product:	Brocade NetIron OS	Technology Group:	Management
Reported In Release:	NI 05.8.00	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	BGP session may flap		
Condition:	SNMP polling of BGP tables (bgp4PathAttrTable, bgp4V2NlriTable)		
	with 600K or more BGP route entries		
Workaround:	Disable SNMP polling for the table: bgp4PathAttrTable,		
	bgp4V2NlriTable		

Defect ID:	DEFECT000654629	Technical Severity:	High
Reason Code:	Already Fixed in	Probability:	Medium
	Release		
Product:	Brocade NetIron OS	Technology Group:	Layer 2 Switching
Reported In Release:	NI 05.8.00	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	CCP protocol does not go down on MCT cluster node		
Condition:	1. MCT cluster with L2VPN peer should be configured on both the		
	Cluster peer nodes		
	2. "client-interface shutdown" command should be issued on the		
	MCT Active Cluster no	de	

Defect ID:	DEFECT000654631	Technical Severity:	High
Reason Code:	Already Fixed in	Probability:	Medium
	Release		
Product:	Brocade NetIron OS	Technology Group:	Layer 2 Switching
Reported In Release:	NI 05.8.00	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	"client-interface shutdown" command does not bring the CCP down		
	and MCT VLL Active/Standby switchover does not happen		
Condition:	(1) MCT cluster with VPLS and VLL should be configured on both the		
	peer nodes .		
	(2)"client-interface shutdown" command should be issued on MCT		
	Active cluster node		

Defect ID:	DEFECT000654707	Technical Severity:	High		
Reason Code:	Already Fixed in	Probability:	Low		
	Release				
Product:	Brocade NetIron OS	Technology Group:	IP Multicast		
Reported In Release:	NI 05.8.00	Technology:	PIM - Protocol-		
			Independent		
			Multicast		
Symptom:	Line card may reload u	nexpectedly with the fol	lowing stack trace:-		
	21584ddc: memcpy(pc)				
	20f48b28: pimsm_encapsulate_pkt_and_send_to_rp(lr)				
	20f4987c: pimsm_forward_multicast_pkt				
	20f4850c: pim_forward_multicast				
	20f27d98: mcast_flow_fast_forward				
	20eaeb3c: fpip_process_ip_packet_with_I2_broadcast				
	20eedb20: rx_pkt_processing				
	20d4f4a4: lp_pkt_receive				
	20a0f028: ppcr_recieve_packet				
	207eef3c: lp_pbif_packet_task				
	00040158: sys_end_task				
Condition:	Flap the interface on M	1CT Peer repeatedly with	multicast-routing and		
	PIM SM configured on	MCT			

Defect ID:	DEFECT000654817	Technical Severity:	High	
Reason Code:	Already Fixed in	Probability:	Low	
	Release			
Product:	Brocade NetIron OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	NI 05.8.00	Technology:	OSPF - IPv4 Open	
			Shortest Path First	
Symptom:	CES/CER may unexpect	edly reload with the foll	owing stack trace :-	
	205e15d8: time_tree_0	delete_first_entry_and_a	add(pc)	
	205e1de8: trace_util_a	ndd_entry_avl(lr)		
	205e1de8: trace_util_a	ndd_entry_avl		
	20598540: IPTRACE_A\	/L		
	20598294: IPTRACE_A\	/L_USING_RT_ENTRY		
	204cacd8: lp_cam_add_ip_nexthop_route			
	204ca61c: lp_cam_add_ip_route			
	205b0674: ip_update_pram_for_route_entry_puma			
	205b08ec: ip_update_pram_for_route_entry			
	206497bc: dp_trie_process_one_route_update			
	2064a124: dp_trie_process_route_update			
	2064a2bc: process_tre			
	203793cc: process_dy_			
	203ae898: ipc_multi_n	<del>_</del>		
	203b0e74: ipc_process_messages			
	203b1634: ipc_receive_packet			
	203abef0: ge_process_			
	203ac278: ge_process_			
	200bb704: metro_sys_	loop		
	200b10e0: main			
	00040158: sys_end_ta			
Condition:	It is very rarely observed with the following scale on CES/CER MCT			
	Cluster by flapping ICL interface repeatedly			
	250 VPLS instances			
	100 VLL			
	500 IGMP group			
	250 MLD group			

Defect ID:	DEFECT000655355	Technical Severity:	Medium
Reason Code:	Already Fixed in	Probability:	Medium
	Release		
Product:	Brocade NetIron OS	Technology Group:	Monitoring
Reported In Release:	NI 06.0.00	Technology:	OAM - Operations,
			Admin &
			Maintenance
Symptom:	Port of 20X10G Line card Module may not come up		
Condition:	It is very rarely observed when a new connection is made on a port of		
	20X10G		
Recovery:	Any one of the following methods can help in recovery:-		
	1. Removal and Re-insert of SFPP		
	2. Swap SFPP by SFP and re-swap SFP by SFPP.		
	3. Reload Line card Module.		

Defect ID:	DEFECT000658063	Technical Severity:	Medium
Reason Code:	Already Fixed in	Probability:	Medium
	Release		
Product:	Brocade NetIron OS	Technology Group:	Security
Reported In Release:	NI 05.8.00	Technology:	ACLs - Access Control
			Lists
Symptom:	May observe the following syslog message:-		
	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)		
Condition:	Two ACL's with deny rule binded to the same interface with deny		
	logging enabled		

Defect ID:	DEFECT000658976	Technical Severity:	Medium
Reason Code:	Already Fixed in	Probability:	Medium
	Release		
Product:	Brocade NetIron OS	Technology Group:	Monitoring
Reported In Release:	NI 05.6.00	Technology:	Hardware Monitoring
Symptom:	Observed incorrect Timestamp in 'show tm log' output		
Condition:	On execution of ?show tm log?		

Defect ID:	DEFECT000659925	Technical Severity:	Medium
Reason Code:	Design Limitation	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 06.2.00	Technology:	BFD - BiDirectional
			Forwarding
			Detection
Symptom:	BFD neighbor session would take 3 minutes to come up on bringing		
	up the interface		
Condition:	(1) bring up the BFD session between the neighbors with the image		
	below 5.7 or above loaded		
	(2) bring DOWN the interface		
	(3) bring UP the interfa	ice	

## Known issues NI6.3.00

This section lists open software defects with Critical, High, and Medium Technical Severity as of 08/30/2018 in NetIron OS 6.3.00.

Defect ID:	DEFECT000605799		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	IP Multicast
Reported In Release:	NI 06.1.00	Technology:	PIM - Protocol-
			Independent
			Multicast
Symptom:	Momentary traffic loss will be seen when device switch-over from		
	active MP to standby MP.		
Condition:	During MP switch-over, hardware reprogramming of some of the		
	existing multicast entri	es can cause momentar	y traffic loss.

Defect ID:	DEFECT000622581		
<b>Technical Severity:</b>	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	IP Multicast
Reported In Release:	NI 06.1.00	Technology:	PIM6 - IPv6 Protocol-
			Independent
			Multicast
Symptom:	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.		
Condition:	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		

Defect ID:	DEFECT000623241		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Management
Reported In Release:	NI 06.1.00	Technology:	NTP - Network Time
			Protocol
Symptom:	CES/CER does not synchronize time with NTP broadcast server.		
Condition:	NTP broadcast client configuration on default or non default VRF.		

Defect ID:	DEFECT000623781		
Technical Severity:	Medium	Probability:	High
Product:	Brocade NetIron OS	Technology Group:	Security
Reported In Release:	NI 05.9.00	Technology:	ACLs - Access Control
			Lists
Symptom:	ingress packets could be dropped when allow-all-vlan pbr is configured		
Condition:	ingress packets could be dropped when allow-all-vlan pbr is configured on a 4x40 module.		

Defect ID:	DEFECT000631492		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	IP Multicast
Reported In Release:	NI 06.0.00	Technology:	IGMP - Internet
			Group Management
			Protocol
Symptom:	(*, G) and (S, G) entries may not be removed from IGMP snooping		
	VLAN database		
Condition:	IGMP leave message received from the last receiver port		

Defect ID:	DEFECT000632633		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	IP Multicast
Reported In Release:	NI 06.0.00	Technology:	PIM6 - IPv6 Protocol-
			Independent
			Multicast
Symptom:	IPv6 multicast traffic dropped on scaled system		
Condition:	The cam profiling is configured as "multi-service-6"		
	Card type is NI-MLX-10Gx8-M		
	IPV6 multicast CAM size is allocated more than 4k		

Defect ID:	DEFECT000633774			
Technical Severity:	High	Probability:	Medium	
Product:	Brocade NetIron OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	NI 05.8.00	Technology:	BGP4 - IPv4 Border	
			Gateway Protocol	
Symptom:	Standby Management	Module may unexpected	dly reload with the	
	following stack trace:-			
	Possible Stack Trace (function call return address list)			
	20ec94d4: bgp_check_for_fwd_address(pc)			
	20ec93ec: bgp_check_for_fwd_address(lr)			
	20efbd18: bgp_RIB_in_delete_route			
	20f7952c: bgp_check_for_aggrgation			
	20effd40: bgp_remove_route_advertisement			
	20efbdf4: bgp_RIB_in_delete_route			
	20efda08: bgp_vrf_RIB	_in_delete_all_self_nlris	5	
	20eb4e88: bgp_clear_all_vrf_neighbors			
	20f57744: bgp_clear_neighbor_itc_request_callback			
	20b14584: itc_process_msgs_internal			
	20b14a24: itc_process_msgs			
	20f73ed8: bgp_task			
	00005e18: sys_end_tas	sk		
Condition:	Execution of "clear ip b	gp neighbor all" comma	nd	

Defect ID:	DEFECT000636007		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Management
Reported In Release:	NI 05.8.00	Technology:	CLI - Command Line
			Interface
Symptom:	InOctet and OutOctet of	counter values do not inc	clude the Ethernet
	framing overhead byte	S.	
Condition:	When executing ?show statistics? command after enabling include-		
	ethernet-framing-overhead configuration command.		
	OR		
	When polling the below SNMP OID?s after enabling include-ethernet-		
	framing-overhead configuration command.		
	? ifInOctets		
	? ifOutOctets		
	? ifHCInOctets		
	? ifHCOutOctets		
	? snSwIfInOctets	;	
	? snSwIfOutOcte	ts.	

Defect ID:	DEFECT000638634		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Layer 2 Switching
Reported In Release:	NI 05.8.00	Technology:	LAG - Link
			Aggregation Group
Symptom:	The LAG port may not go down on receiving the timed-out LACP		
	BPDU from peer with reset of collecting and distributing bits		
Condition:	Mac access-list with ex	plicit deny all is configur	ed on a LAG port

Defect ID:	DEFECT000642613		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 05.6.00	Technology:	VRRPv3 - Virtual
			Router Redundancy
			Protocol Version 3
Symptom:	High CPU usage causing dual master VRRP and VRRPv3 dual master .		
Condition:	Number of ND6 entries	s is greater than 12000 o	n CES/CER

Defect ID:	DEFECT000643261		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	IP Multicast
Reported In Release:	NI 06.0.00	Technology:	IPv4 Multicast VLAN
			Traffic Reduction
Symptom:	A host receives multica	st traffic for an IGMP gr	oup for which it has
	not sent an IGMP JOIN	message.	
Condition:	A PC Host receives multicast traffic, even if it has not sent an IGMP		
	Join message for the multicast group.		
	Conditions:		
	a. An active receiver on one of the ports of vlan.(with IGMP snooping		
	enabled). Other ports of	of vlan do not receive mu	ulticast traffic.
	b. Disable IGMP snooping on the vlan. MC traffic resumes(due to		
	default flooding behavior on vlan).		
	c. Re-enable the IGMP snooping configuration.		
	d. All the ports of vlan	continue to receive the r	multicast traffic.

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

Defect ID:	DEFECT000652797			
Technical Severity:	High	Probability:	Medium	
Product:	Brocade NetIron OS	Technology Group:	Monitoring	
Reported In Release:	NI 06.2.00	Technology:	sFlow	
Symptom:	When sFlow is enabled	for IPV6 traffic sampling	g on an interface which	
	is associated with a VE	and user defined VRF, t	he LP CPU usage may	
	go high up to 50%.			
Condition:	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.			
Workaround:	LP CPU usage can be reduced by either reducing the sampling			
	frequency (via increasing the 'sampling rate' configuration) or by			
	removing the VE config	removing the VE configuration on sFlow forwarding port.		
Recovery:	Disable sFlow, reconfig	ure as needed and re-er	able sFlow.	

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

Defect ID:	DEFECT000657027		
Technical Severity:	High	Probability:	Low
Product:	Brocade NetIron OS	Technology Group:	IP Multicast
Reported In Release:	NI 06.2.00	Technology:	PIM - Protocol-
			Independent
			Multicast
Symptom:	(S,G) for some groups are not formed in intermediate CER router		
Condition:	Rarely observed with PIM-DM enabled on all the interfaces during		
	router upgrade		

Defect ID:	DEFECT000657175		
Technical Severity:	High	Probability:	Low
Product:	Brocade NetIron OS	Technology Group:	IP Multicast
Reported In Release:	NI 06.2.00	Technology:	PIM - Protocol-
			Independent
			Multicast
Symptom:	Multicast traffic drops in a multicast snooping enabled switch which is		
	directly connected to Source		
Condition:	Rarely observed on a Multicast snooping enabled switch configured		
	with multicast passive	on VLAN	

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

Defect ID:	DEFECT000657631		
Technical Severity:	High	Probability:	Low
Product:	Brocade NetIron OS	Technology Group:	Layer 2 Switching
Reported In Release:	NI 06.2.00	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	VPLS traffic may be dropped on the MCT peer node		
Condition:	1) MCT over VPLS should be configured		
	2) 'Client interface shutdown' has to be configured on VPLS active		
	node to make the CCEP port disable		
	3) After traffic switched to the MCT peer node which is the new active		
	node, reload the curre	nt passive MCT VPLS noo	de

Defect ID:	DEFECT000658979			
Technical Severity:	High	Probability:	Low	
Product:	Brocade NetIron OS	Technology Group:	MPLS	
Reported In Release:	NI 06.0.00	Technology:	MPLS Traffic	
			Engineering	
Symptom:	LSP session may not go down			
Condition:	1) MPLS LSP tunnel should be established with the remote peer			
	2) Disable the loop back	2) Disable the loop back interface (peer IP) on the remote device		

Defect ID:	DEFECT000659209		
Technical Severity:	High	Probability:	Low
Product:	Brocade NetIron OS	Technology Group:	IP Multicast
Reported In Release:	NI 06.0.00	Technology:	IPv4 Multicast
			Routing
Symptom:	Multicast traffic may drop in PIM router below RP which is connected		
	towards the receiver in non-default VRF		
Condition:	Rarely observed after PIM RP node reloads		
Workaround:	Execute clear ip pim mcache vrf <vrf-name> in downstream router</vrf-name>		
	after RP		

Defect ID:	DEFECT000659554		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Management
Reported In Release:	NI 06.0.00	Technology:	CLI - Command Line
			Interface
Symptom:	'fan-threshold' configuration is not saved in running-configuration		
	after reload		
Condition:	Fan speed is manually	configured using 'fan-thr	reshold' command

Defect ID:	DEFECT000661201		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 06.0.00	Technology:	BGP4+ - IPv6 Border
			Gateway Protocol
Symptom:	Ipv6 BGP peering session may encounter "Optional attribute error"		
Condition:	1. IPv6 Additional-Paths option is enabled		
	2. Processed withdraw	message from neighbor	

Defect ID:	DEFECT000661407		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 06.0.00	Technology:	OSPFv3 - IPv6 Open
			Shortest Path First
Symptom:	IPv6 traffic may not be forwarded over VEoVPLS interface		
Condition:	MPLS LSP primary path goes down on disabling the VEoVPLS interface		
Workaround:	clear mpls lsp <lsp-nam< th=""><th>ne&gt;</th><th></th></lsp-nam<>	ne>	

Defect ID:	DEFECT000661679		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Management
Reported In Release:	NI 06.2.00	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	ifPhysAddress may return primary port physical MAC address		
Condition:	for all the member ports other than primary port in a LAG		

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

Defect ID:	DEFECT000662001		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Security
Reported In Release:	NI 06.2.00	Technology:	ACLs - Access Control
			Lists
Symptom:	Traffic loss with TX ACL drops may be observed in 'show np stat'		
Condition:	1) Ingress port has to be configured with PBR route-map with flood		
	vlan		
	2)Transparent vlan flooding has to be enabled on the egress vlan		
	3)Egress port should be	e 40G and configured wi	th loopback system

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

Defect ID:	DEFECT000662210		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 06.0.00	Technology:	BGP4+ - IPv6 Border
			Gateway Protocol
Symptom:	BGP multipaths are not happened properly for BGP IPv6 routes that		
	are learned in VRF		
Condition:	1. iBGP neigborship established with 2 neighbors in VRF		
	2. BGP multipaths are enabled		
	3. The same route is advertised from both the neighbors with the		
	same local_pref, MED, ORIGIN, weight		
Workaround:	Configure "always-com	pare-med" in 'router bg	p'

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

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

Defect ID:	DEFECT000662992			
Technical Severity:	High	Probability:	Medium	
Product:	Brocade NetIron OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	NI 06.3.00	Technology:	IS-IS - IPv4	
			Intermediate System	
			to Intermediate	
			System	
Symptom:	User may observe reload of standby MP			
Condition:	User may observe this issue on a system with scaled IS-IS			
	configuration when "cl	ear isis all" is issued		

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

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

Defect ID:	DEFECT000665208		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Layer 2 Switching
Reported In Release:	NI 06.0.00	Technology:	VLAN - Virtual LAN
Symptom:	Sometimes SSH session may not respond		
Condition:	1. Pasting large configuration list of commands around 20K lines		
	2. Another session is opened for the same device		

Defect ID:	DEFECT000665302		
Technical Severity:	High	Probability:	Medium
Product:	Brocade NetIron OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	NI 06.3.00	Technology:	Multi-VRF
Symptom:	Route for loopback interfaces might not be advertised to BGP peers		
	after a router reload.		
Condition:	With a BGP configuration over 100 BGP VRFs and a large		
	configuration file		
Recovery:	a. disable/enable the loopback interfaces, or		
	b. clear ip bgp neighbor all soft out, or		
	c. clear ip bgp local rou	tes	