**BROCADE**

# SLX-OS 17r.1.00 for SLX 9850 and SLX 9540

## Release Notes v5.0

# Contents

# Document history

| Version | Summary of changes | Publication date |
| --- | --- | --- |
| 1.0 | Initial Release | March 6, 2017 |
| 2.0 | Updated Title | March 7, 2017 |
| 3.0 | Defect tables added | March 31, 2017 |
| 4.0 | Updated FPGA upgrade instructions | April 5, 2017 |
| 5.0 | Updated "Limitations and restrictions" section | June 2, 2017 |

# Preface

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|---|---|
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# Overview



Figure 1: Brocade SLX 9540

Brocade SLX 9540 provides flexible edge connectivity with cost-effective density, features, and performance optimized for data center interconnect, WAN edge, IXP, and colocation data center deployments. It delivers up to 720 Mpps forwarding capacity and industry-leading 6 GB of tunable ultra-deep packet buffers in a 1 RU space. It includes multiple configurations of dense 10 and 100 GbE for diverse deployment options and delivers carrier-class forwarding with full IPv4/v6 switching, MPLS, and VPLS. SLX 9540 enables customizable real-time monitoring for improved troubleshooting, reduced MTTR, and optimized use of off-device Big Data analytics and monitoring platforms with Brocade SLX Insight Architecture.

SLX OS 17r.1.00 supports a number of software features and capabilities enabling the following use cases

A.  Layer 3 Clos architecture deployment with SLX 9850 series as Spine and SLX 9540 as leaf/Border  leaf switch across both IP and/or MPLS transport network while supporting VxLAN Overlay capabilities
B.  Network architecture with Core, Aggregation, and Data Center Interconnection positions in the network(PIN) with SLX 9850 series and SLX 9540 switches
C.  L2 Exchange architecture, providing Layer 2 interconnect over MPLS transport over VPLS/VLL pseudo wires

# Behavior changes

## Behavior changes in release SLX OS 17r.1.00

- Customers are encouraged to use the new SLX CLI command "tpvm" to launch the 3rd party VM.  The same functionality was previously achieved by using Linux shell command "tpvmadm".

# New SKUs

The following section lists new SKUs introduced with this release.

| SKU | Description |
|---|---|
| BR-SLX-9540-24S-AC-F | Brocade SLX 9540-24S Switch AC with Front to Back airflow. Supports 24x10GE/1GE + 24x1GE ports. |
| BR-SLX-9540-24S-DC-F | Brocade SLX 9540-24S Switch DC with Front to Back airflow. Supports 24x10GE/1GE + 24x1GE ports. |
| BR-SLX-9540-24S-AC-R | Brocade SLX 9540-24S Switch AC with Back to Front airflow. Supports 24x10GE/1GE + 24x1GE ports. |
| BR-SLX-9540-24S-DC-R | Brocade SLX 9540-24S Switch DC with Back to Front airflow. Supports 24x10GE/1GE + 24x1GE ports. |
| BR-SLX-9540-48S-AC-F | Brocade SLX 9540-48S Switch AC with Front to Back airflow. Supports 48x10GE/1GE + 6x100GE/40GE |
| BR-SLX-9540-48S-DC-F | Brocade SLX 9540-48S Switch DC with Front to Back airflow. Supports 48x10GE/1GE + 6x100GE/40GE |
| BR-SLX-9540-48S-AC-R | Brocade SLX 9540-48S Switch AC with Back to Front airflow. Supports 48x10GE/1GE + 6x100GE/40GE |
| BR-SLX-9540-48S-DC-R | Brocade SLX 9540-48S Switch DC with Back to Front airflow. Supports 48x10GE/1GE + 6x100GE/40GE |
| BR-SLX-9540-24S-COD | Upgrade 24x1GE to 24x10GE/1GE |
| BR-SLX-9540-2C-POD | Ports on Demand for 2x100GE/40GE Uplinks |
| BR-SLX-9540-ADV-LIC | Advanced Feature License is needed for MPLS, VxLAN and 3rd Party VM support |

# Software Features

## New software features

The following software features are new in this release

- Layer 2 VxLAN gateway capability with Static VxLAN tunnels enabling network virtualization overlays.
- Support MACs configuration for Static Layer 2 Extension VxLAN Tunnels.
- Streaming as gRPC server and TCP Client with GPB encoding
- Insight interface enabling data-path to and from 3rd Party VM (TPVM) and forwarding Data-Plane
- Process Restart-ability: Process restart capability is a fault containment mechanism which ensures that process-level failures do not cause system-level failures. To achieve process restart capability, each process must run in its protected memory space independent of kernel. Each of the routing protocol daemons BGP, ISIS and OSPFv2 and OSPFv3 run as a separate process in SLX-OS.
- Auto LSP Bandwidth: This feature allows an LSP to adapt its bandwidth based on the actual traffic flowing through the LSP.
- Traffic Policing with Port based and Layer 2 ACL Rate Limiting: The purpose of the Policer (Rate limiter) is to control the amount of bandwidth consumed by an individual flow, or an aggregate of flows. It accomplishes rate control by dropping packets. Policer implements the Single-rate Three Color (SrTCM) and Two-rate Three Color (TrTCM) mechanism based on RFC 2697 and RFC 4115. Both Committed Information Rate (CIR) and Excess Information Rate (EIR) can be specified to police a flow.
- Extending MAC-AGE Timer: This feature introduces extended aging time configuration for dynamic MAC addresses. Currently, MAC aging time is user configurable, but has an upper limit of 572s. This feature enhances the MAC aging design to support MAC aging time of up to 86400seconds (1day)
- Dynamic ARP Inspection: Dynamic Arp Inspection (DAI) is a security feature that protects network from ARP cache poisoning. DAI is enabled on L2/L3 VLANs. DAI intercepts, and discards ARP packets with invalid IP- to-MAC address bindings. This capability protects the network from some man-in-the-middle attacks.
- MAC ACL for VPLS: This feature enables L2 ACL support on VPLS Pseudo wire endpoints
- OpenFlow: OpenFlow capabilities enhanced to support
  - IPv6 source & destination address,
  - Allowing matching of both Layer 2 headers and all Layer 3 IPv4 headers simultaneously.
  - Hybrid port VRF support
  - Support for tagged and untagged traffic
  - Co-exist OpenFlow flow and PBR flow on same port
  - Openflow logical port support on LAG
- L3 route programming enhancements

- Unicast RPF (uRPF): This security feature enables IP reachability check to avoid spoofing attacks. This release supports uRPF for both IPv4 and IPv6 across Loose and Strict mode.
- Open Network Install Environment (ONIE). Supported on SLX 9540, ONIE is the combination of a boot loader and a small operating system for bare metal network switches that provides an environment for automated provisioning. ONIE provides a way for automated OS download on an out of box system. It also provides mechanisms to re-install or update the OS.
- Zero Touch Provisioning (ZTP) support for SLX 9540: ZTP is an automated process to do firmware download and/or to set up the switch configuration. This eliminate the need for customers to login into the switch console to bring up the switch with right firmware and customer configuration manually.
- 802.3ah: Supports standards based Link OAM as per IEEE 802.3ah.
- Radius accounting: This feature enables SLX 9850/9540 to act as client to RADIUS accounting server as per RFC 2866.
- Supports IGMPv3 Snooping: Enables IGMPv3 Snooping by which multicast-destined traffic in a switch is selectively forwarded on a subset of the ports of a VLAN interface based on learning of group membership on the ports by listening in to the IGMPv3 membership reports
- PIM Snooping: PIM SM traffic snooping eliminates the superfluous traffic by configuring the device to forward IP Multicast group traffic only on the ports that are attached to receivers for the group. PIM SM traffic snooping provides a finer level of multicast traffic control by configuring the device to listen specifically for PIM SM join and prune messages sent from one PIM SM router to another through the device.
- Layer 2 Loop detection: Enables layer 2 loop detection in a network caused by miss-configurations and prevent layer 2 packet storms.
- VE Route Only: This feature enable the device physical port/LAG port (PO interface) for acting as a purely L3 device and drop all ingress packets through the port requiring L2 switching. The default (i.e. 'no route only') configuration of these ports support both L2 switching and L3 routing on SLX 9850 & SLX 9540.
- LACP BPDU forwarding - This feature defines the handling of a LACP PDU when it is received on an interface. When a LACP PDU is received on an interface, it is consumed by the device if LACP is enabled on that interface. If not, the LACP PDU will be discarded. In certain scenarios, it is necessary for the LACP PDU to be forwarded. In such cases, the SLX device can be configured to forward the LACP PDU on the VLAN on which it is received
- Port on Demand (POD) and Capacity on Demand (COD) Licensing for SLX 9850 & SLX 9540
- Feature Licensing enforcements for SLX 9850 & SLX 9540.
- Supports LED Beacon to identify particular chassis or a specific interface.
- OpenSSL Upgrade to 1.02h
- Supports LED Beaconing to identify a particular chassis, or a specific interface

- Transient congestion detection
- Image snapshot for device recovery
- Firmware download support using USB
- Trace file rotation
- Consolidated supportsave enhancements
- FPGA version checking and coherence check for SLX 9850 and SLX 9540 platforms

# CLI commands

## CLI commands

### New commands

The following commands are new in this release:

- action-timeout
- activate (Telemetry collector)
- activate (Telemetry server)
- activate (VXLAN gateway)
- arp access-list
- channel-group
- clear loop-detection
- clear overlay-gateway
- description
- dhcp ztp cancel
- dhcp ztp log
- extend vlan
- hello-interval (LD)
- interface Ethernet
- interface loopback
- interface port-channel
- interface ve
- ip arp inspection filter
- ip arp inspection
- ip arp inspection logging acl-match
- ip arp inspection trust
- ip pim snooping enable
- lacp-pdu-forward enable
- loop-detection
- loop-detection shutdown-disable
- loop-detection vlan
- mac-address-table aging-time
- map vlan
- openflow-mirror destination
- openflow ingress-replication group-id-range
- permit ip host
- protocol loop-detection
- raslog-duration
- route-only
- show arp access-list

- show ip arp inspection
- show ip arp inspection interfaces
- show loop-detection
- show overlay-gateway
- show vlan brief
- shutdown-time
- site
- source-interface
- switchport
- switchport access
- switchport mode
- system power-cycle-db-shutdown
- telemetry collector
- telemetry server
- tpvm
- type
- write erase

## Modified commands

The following commands have been modified for this release:

- aa accounting
- event-handler
- event-handler abort action
- event-handler activate
- include-all
- mac access-list extended
- openflow enable
- oscmd
- overlay-gateway
- seq (rules in MAC extended ACLs)
- show running-config event-handler
- start-shell
- trigger

## Deprecated commands

The following commands have been deprecated beginning with this release:

- N/A

# RFCs and standards

The RFCs and standards supported in this release can be found at:

[Brocade SLX 9850 Router Data Sheet](#)

[Brocade SLX 9540 Data Sheet](#)

# Hardware support

## Supported devices

The following devices are supported in this release:

| Supported Hardware | Description |
|---|---|
| BR-SLX9850-4-BND-AC | Brocade SLX 9850 4-slot chassis with 1 management module, 5 switch fabric modules, 2 3000W AC power supplies, 3 fan modules, and accessory kit. Power cord not included. |
| BR-SLX9850-4-BND-DC | Brocade SLX 9850 4-slot chassis with 1 management module, 5 switch fabric modules, 2 3000W DC power supplies, 3 fan modules, and accessory kit. Power cord not included. |
| BR-SLX9850-8-BND-AC | Brocade SLX 9850 8-slot chassis with 1 management module, 5 switch fabric modules, 4 3000W AC power supplies, 3 fan modules, and accessory kit. Power cord not included. |
| BR-SLX9850-8-BND-DC | Brocade SLX 9850 8-slot chassis with 1 management module, 5 switch fabric modules, 4 3000W DC power supplies, and 3 fan modules, and accessory kit. Power cord not included. |
| BR-SLX9850-10GX72S-M | Brocade SLX 9850 72-port 10GbE/1GbE (M) interface module with IPv4/IPv6/MPLS hardware support. Requires SFP+ optics for 10GbE connectivity and SFP optics for 1GbE connectivity. Supports 750K MAC, 256K IPv4 routes and 64K IPv6 routes |
| BR-SLX9850-100GX36CQ-M | BR SLX 9850 36-port 100GbE, 60-port 40GbE, or 240-port 10GbE flex-speed (M) interface module with IPv4/IPv6/MPLS hardware support. Requires QSFP28 optics for 100GbE, QSFP+ optics for 40GbE, and 40GbE to 10GbE breakout for 10GbE connectivity. Supports 750K MAC, 256K IPv4 routes and 64K IPv6 routes |
| XBR-SLX9850-4-S | Brocade SLX9850 Spare 4-slot chassis |
| XBR-SLX9850-8-S | Brocade SLX9850 Spare 8-slot chassis |
| BR-SLX9850-MM | Brocade SLX 9850 management module for 4-slot and 8-slot systems, includes 16GB RAM, 2 internal Solid State Drives, 4-Core Intel CPU, 2 USB 3.0 ports, 2 RJ-45 console ports, and 10GbE Services port |
| BR-SLX9850-4-SFM | Brocade SLX 9850 switch fabric module for 4-slot chassis |
| BR-SLX9850-8-SFM | Brocade SLX 9850 switch fabric module for 8-slot chassis |
| XBR-SLX9850-ACPWR-3000 | Brocade SLX 9850 AC 3000W power supply for 4- and 8-slot chassis, 90-270V AC input |
| XBR-SLX9850-DCPWR-3000 | Brocade SLX 9850 DC 3000W power supply for 4- and 8-slot chassis |
| XBR-SLX9850-4-FANM | Brocade SLX 9850 fan module for 4-slot chassis. Fan module has 2 fans. |
| XBR-SLX9850-8-FANM | Brocade SLX 9850 fan module for 8-slot chassis. Fan module has 4 fans. |
| XBR-SLX9850-4-CAB | Brocade SLX 9850 Cable Combo Kit for 4-slot chassis |
| XBR-SLX9850-8-CAB | Brocade SLX 9850 Cable Combo Kit for 8-slot chassis |
| XBR-SLX9850-4-SFMPNL | Brocade SLX 9850 switch fabric module blank panel for 4-slot chassis |
| XBR-SLX9850-8-SFMPNL | Brocade SLX 9850 switch fabric module blank panel for 8-slot chassis |
| XBR-SLX9850-PWRPNL | Brocade SLX 9850 power supply blank panel for 4-slot and 8-slot chassis |
| XBR-SLX9850-IMPNL | Brocade SLX 9850 interface module blank panel for 4-slot and 8-slot chassis |
| XBR-SLX9850-MMPNL | Brocade SLX 9850 management module blank panel for 4-slot and 8-slot chassis |
| XBR-SLX9850-4-4PRM-KIT | Brocade SLX 9850 four-post rack mounting kit for 4-slot chassis. Include 27-31" flush and recessed mounting |
| XBR-SLX9850-4-2PRM-KIT | Brocade SLX 9850 two-post rack mounting kit for 4-slot chassis. Include telco flush and midplane mounting |
| XBR-SLX9850-8-4PRM-KIT | Brocade SLX 9850 four-post rack mounting kit for 8-slot chassis. Include flush and  recessed mounting |
| XBR-SLX9850-8-2PRM-KIT | Brocade SLX 9850 two-post rack mounting kit for 8-slot chassis. Include telco flush  and midplane mounting |
| XBR-SLX9850-4-CAB | Brocade SLX 9850 Cable Management kit for 4-slot chassis |
| XBR-SLX9850-8-CAB | Brocade SLX 9850 Cable Management kit for 8-slot chassis |

# Supported modules

The following new Interface Modules are supported

| Interface Modules | Description |
|---|---|
| BR-SLX9850-10GX72S-D | Brocade SLX 9850 72-port 10GbE/1GbE (D) interface module with IPv4/IPv6 hardware support. Requires SFP+ optics for 10GbE connectivity and SFP optics for 1GbE connectivity. Supports 750K MAC, 256K IPv4 routes and 64K IPv6 routes with up to 8GB packet buffers. |
| BR-SLX9850-100GX36CQ-D | Brocade SLX 9850 36-port 100GbE,60-port 40GbE, or 240-port 10GbE flex-speed (D) interface module with IPv4/IPv6 hardware support. Requires QSFP28,QSFP+ optics & 40GbE to 10GbE breakout(10GbE) connectivity. Supports 750K MAC,256K IPv4 & 64K IPv6 routes with up to 24GB packet buffers. |

## Supported power supplies

- Brocade SLX 9850 AC 3000W power supply for 4- and 8-slot chassis, 90-270V AC input
- Brocade SLX 9850 DC 3000W power supply for 4- and 8-slot chassis, 48V DC input

## Supported optics

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

| Part Number | Description |
|---|---|
| E1MG-TX | MODULE, MINI-GBIC, TX, 1000BASE, RJ45 |
| E1MG-LX-OM | 1000BASE-LX SFP OPTIC, SMF LC |
| E1MG-LX-OM-8 | 1000BASE-LX SFP OPTIC, SMF LC 8 |
| E1MG-SX-OM | 1000BASE-SX SFP OPTIC, MMF LC |
| E1MG-SX-OM-8 | 1000BASE-SX SFP OPTIC, MMF LC 8 |
| E1MG-BXD | 1000BASE-BXD SFP OPTIC SMF |
| E1MG-BXU | 1000BASE-BXU SFP OPTIC SMF |
| 10G-SFPP-USR | 10G USR SFP+ TRANS 100M OVER MMF |
| 10G-SFPP-SR | 10G SR SFP+ TRANS 300M OVER MMF |
| 10G-SFPP-SR-8 | 10G SR-8 SFP+ TRANS 300M OVER MMF 8 |
| 10G-SFPP-LR | 10G LR SFP+ TRANS 10KM OVER SMF |
| 10G-SFPP-LR-8 | 10G LR SFP+ TRANS 10KM OVER SMF 8 |
| 10G-SFPP-ER | 10G ER SFP+ TRANS 40KM OVER SMF |
| 10G-SFPP-ZR | 10GBASE-ZR SFP+ optic (LC), for up to 80km over SMF |
| 10GE-SFPP-AOC-0701 | 10GE SFP+ Direct Attach Cables 7m - Active Optical cables |
| 10GE-SFPP-AOC-1001 | 10GE SFP+ Direct Attach Cables 10m - Active Optical cables |
| 10G-SFPP-TWX-0101 | 10 GbE SFP+ optics Twinax Active Copper cable: 1m |
| 10G-SFPP-TWX-0301 | 10 GbE SFP+ optics Twinax Active Copper cable: 3m |
| 10G-SFPP-TWX-0501 | 10 GbE SFP+ optics Twinax Active Copper cable: 5m |
| 40G-QSFP-SR4 | 40G QSFP+ SR4 TRANS 100M OVER MMF |
| 40G-QSFP-SR4-INT | 40G QSFP+ 100M OVER MMF  10G BREAKOUT |
| 40G-QSFP-ESR4-INT | 40G QSFP+ 300M OVER MMF 10G BREAKOUT |
| 40G-QSFP-LR4 | 40G QSFP+ LR4 TRANS 10KM OVER SMF |
| 40G-QSFP-QSFP-C-0101 | 40G QSFP+ TO QSFP+ ACTIVE COPPER 1M |
| 40G-QSFP-QSFP-C-0301 | 40G QSFP+ TO QSFP+ ACTIVE COPPER 3M |
| 40G-QSFP-QSFP-C-0501 | 40G QSFP+ TO QSFP+ ACTIVE COPPER 5M |
| 40G-QSFP-QSFP-AOC-1001 | 40G QSFP+ to QSFP+ ACTIVE OPTICAL CABLE 10M |
| 40G-QSFP-4SFP-C-0101 | 4X10GE QSFP+TO4SFP+ COPPER BREAKOUT 1M |
| 40G-QSFP-4SFP-C-0301 | 4X10GE QSFP+TO4SFP+ COPPER BREAKOUT 3M |
| 40G-QSFP-4SFP-C-0501 | 4X10GE QSFP+TO4SFP+ COPPER BREAKOUT 5M |
| 40G-QSFP-4SFP-AOC-1001 | 4X10GE QSFP+TO4SFP+ Fiber BREAKOUT 10M |
| 100G-QSFP28-CWDM4-2KM | 100GBASE CWDM4 QSFP TRANS LC 2KM OVER SM |
| 100G-QSFP28-SR4 | 100G QSFP28 SR4 TRANS 100M OVER MMF |
| 100G-QSFP28-LR4L-2KM | 100G QSFP28 LR4 LITE TRANS 2KM OVER SMF |
| 100G-QSFP28-LR4-10KM | 100G QSFP28 LR4 TRANS 10KM OVER SMF |
| 100G-QSFP28-LR4-LP-10KM | 100G QSFP28 LR4 LOWPOWER 2KM OVER SMF |

# Software upgrade and downgrade

## Image file names

Download the following images from www.brocade.com.

| Image file name | Description |
|---|---|
| slxos17r.1.00.tar.gz | SLX-OS 17r.1.00 software |
| slxos17r.1.00_all_mibs.tar.gz | SLX-OS 17r.1.00 MIBS |
| slxos17r.1.00.md5 | SLX-OS 17r.1.00 md5 checksum |

## Upgrade and downgrade considerations

- Firmware download is supported from earlier SLX releases to this slxos17r.1.00 release.
- Instruction to check and upgrade FPGAs/CPLDs:

**SLX 9850 platform:**

After reload, login to Linux shell from "admin" user by issuing SLXOS CLI command "start-shell", and then issue "SU". At the Linux prompt, do the following:

1. Check the FPGA version.

> # fpga version

If FPGA version is not the latest, use following step to upgrade it.

2. Execute following command to upgrade the FPGA image on MM/LC/SFM:

On Active MM use following command to upgrade the Active MM FPGA

> # sysfpga_upgrade

On Standby MM use following command to upgrade the Standby MM FPGA

> # /fabos/link_bin/sysfpga_upgrade
>
> On Active MM run following command to upgrade LC/SFM
>
> # sysfpga_upgrade lc<slot#>
>
> # sysfpga_upgrade s<slot#>

3. Power cycle the chassis

4. Check FPGA version again to confirm (see step 1)

**SLX 9450 platform:**

After reload, login to Linux shell from "admin" user by issuing SLXOS CLI command "start-shell", and then issue "SU". At the Linux prompt, do the following:

1. Check the FPGA and CPLD version.

    # sysfpga_upgrade –v

    # cpld_upgrade –v

    If FPGA and CPLD version is not the latest then use following step to upgrade it.

2. Execute following command to upgrade the FPGA and CPLD image:

    FPGA upgrade command

        # sysfpga_upgrade -p

    CPLD upgrade command

        # cpld_upgrade -p

3. Power cycle the device
4. Check FPGA version again to confirm (see step 1)

- In downgrading from 17r.1.00 to 16r.1.xx when PIM MCAST is configured, the multicast configuration will not be present in the startup-config after reload. Recommendation is to remove the PIM MCAST config, and add the config after downgrading the chassis.

*FPGA/CPLD versions:*

| SLX-9850 | Release Date |
|---|---|
| MM sys FPGA | 08/25/2016 |
| LC sys FPGA | 08/30/2016 |
| SFM sys FPGA | 08/04/2016 |
| **SLX-9540** | **Release Date** |
| Sys FPGA | 02/09/2017 |
| CPLD 0 | 02/09/2017 |
| CPLD 1 | 02/09/2017 |

# Limitations and restrictions

In rare conditions after system image upgrade, the device may go into continuous reboots due to incompatibility of memory structures between the releases. To recover, power-cycle the device.

## Compatibility and interoperability

## Important notes

Currently, the release does not support FRR facility backup forwarding with labelled (or Multi-Hop) Bypass. No issues with FRR facility backup forwarding with Unlabeled (or Single-Hop) Bypass. The above applies to IPoMPLS FRR. VLL/VPLS and L3VPN FRR will be supported in 17r.1.01 release.

# 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. This is the first release of the SLX code: no TSBs pertaining to SLX code have been issued since the beta release. Any future TSBs will be available on http://my.brocade.com (sign-in required). This product documentation can be found by selecting **Support > Document Library** then under **Explore by Content Type** select **View All** > **Technical Service Bulletin** (note that TSBs are generated for all Brocade platforms and products, so not all TSBs apply to this release).

## Closed with code changes

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 3/29/2017 in 17r.1.00.

| Defect ID: DEFECT000583969 | |
|---|---|
| **Technical Severity:** Medium | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** ARP - Address Resolution Protocol |
| **Symptom:** "show ip interface" will show invalid value for Arp ageing timeout value | |
| **Condition:** Arp ageing is disabled i.e, arp-aging-timeout is set to 0 | |

| Defect ID: DEFECT000583987 | |
|---|---|
| **Technical Severity:** Medium | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** ARP - Address Resolution Protocol |
| **Symptom:** ARP entries displayed by the cli command "show arp" are not sorted. | |
| **Condition:** Sorting of ARP entries based on IP address is not performed before displaying the results. | |

| Defect ID: DEFECT000594794 | |
|---|---|
| **Technical Severity:** High | **Probability:** Low |
| **Product:** Brocade SLX-OS | **Technology Group:** MPLS |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** MPLS Traffic Engineering |
| **Symptom:** In some situations, the MPLS daemon does not fully restart and gets into an unknown state. | |
| **Condition:** In some situations, when the MPLS daemon in in the middle of a Process Restart, and another unexpected error happens within the MPLS daemon, the MPLS Process is not fully restarted and gets into an unknown state.. | |
| **Workaround:** Disable MPLS process restart. | |
| **Recovery:** When this happened, system will not auto-reboot for recovery, Instead user is notified that they need to manually reboot the switch for recovery. | |

| Defect ID: | DEFECT000595337 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Security | |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** PBR - Policy-Based Routing | |
| **Symptom:** After Power off and power on of a Line card few IP Policy route-maps become inactive | | |
| **Condition:** When power cycle is done on a line card, the IP policy configuration on interfaces will be replayed to backend daemon. On few interfaces, the IP policy route-maps might become inactive as the resources are already taken by other interfaces which were replayed first. | | |

| Defect ID: | DEFECT000595775 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** VRRPv2 - Virtual Router Redundancy Protocol  Version 2 | |
| **Symptom:** User could set the secondary IP address as virtual IP on a VRRP-E session | | |
| **Condition:** When configuring VRRP-E | | |
| **Workaround:** Do not use the secondary IP address as virtual IP on a VRRP-E session. | | |

| Defect ID: | DEFECT000596351 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** OSPF - IPv4 Open Shortest Path First | |
| **Symptom:** In Scaled OSPFv2 routes(10k)  and under ECMP/LACP scenario, traffic drop is seen sometimes post LP reload | | |
| **Condition:** Scaled routes (10k or more), ECMP/LAG scenario, and LP reload. | | |

| Defect ID: | DEFECT000597193 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** Multi-VRF | |
| **Symptom:** In certain cases traffic is forwarded to destination even after the outgoing interface is deleted. | | |
| **Condition:** When a route is leaked from VRF1 to VRF2, and VRF1 is deleted | | |

| Defect ID: | DEFECT000598527 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Low | |
| **Product:** Brocade SLX-OS | **Technology Group:** SDN | |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** OpenFlow | |
| **Symptom:** Flows get rejected stating Error in Flow Programming, when there is a continuous Add followed by continuous Bulk Delete or Clear of scaled OpenFlow flows from the controller to switch. | | |
| **Condition:** The condition occurs when there is a high stress in the OpenFlow enabled switch with continuous Add followed by continuous Bulk Delete or Clear of scaled OpenFlow flows. | | |
| **Workaround:** Use strict delete from controller with barrier request Wait for all the flows to be added in HW before doing delete and wait for all flows to be delete in HW before adding the flows back. | | |

| Defect ID: | DEFECT000600015 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** ARP - Address Resolution Protocol | |
| **Symptom:** This problem is not easily reproducible. | | |
| **Condition:** Number of VEs in the system. | | |

| Defect ID: | DEFECT000600663 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** SDN | |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** OpenFlow | |
| **Symptom:** Unexpected Line Card reload on programming 32K OpenFlow flows with group as action. | | |
| **Condition:** F4 Chassis, 8K port based OpenFlow flows per LC with action as group. All OpenFlow Group and Flows are added to the switch from OpenFlow active controller with no barrier request or delay. | | |
| **Workaround:** Program OpenFlow Groups with barrier request and then program flows with barrier request messages. | | |

| Defect ID: | DEFECT000601112 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Management | |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** Configuration Fundamentals | |
| **Symptom:** If the running-configuration file is copied back to the switch containing user-defined VRF, then any service using that user VRF will fail. | | |
| **Condition:** copying the running-configuration having user VRF to the router | | |
| **Recovery:** Copy the running configuration file again. | | |

| Defect ID: | DEFECT000602086 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Monitoring | |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** Port Mirroring | |
| **Symptom:** Configuring more than 5 mirroring sessions per Packet Processor Chip is not throwing error message | | |
| **Condition:** Mirroring table can be filled by many applications. So, exact number of mirroring sessions which will result in port mirroring error is not deterministic. | | |

| Defect ID: | DEFECT000602510 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** MPLS | |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** LDP - Label Distribution Protocol | |
| **Symptom:** SNMP walk on mplsLdpEntityHelloHoldTimer returns incorrect value. | | |
| **Condition:** Bring up the LDP and then try to query this field. | | |
| **Workaround:** There is no workaround to this issue with SNMP. CLI command "show mpls ldp" can help in this case to find the proper value. | | |
| **Recovery:** Issue will not impact anything. | | |

| Defect ID: | DEFECT000603231 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** SDN | |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** OpenFlow | |
| **Symptom:** Byte count shown incorrectly | | |
| **Condition:** Byte count is getting wrapped over after 10 decimal digits and shown incorrectly | | |

| Defect ID: | DEFECT000603782 |
|---|---|
| **Technical Severity:** Medium | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** SDN |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** OpenFlow |
| **Symptom:** The CLI command "show openflow resources" doesn't display the details for all the group types. | |
| **Condition:** The CLI command "show openflow resources" doesn't display the details for all the group types. | |
| **Workaround:** Use the cli command "show openflow group" for getting the group resource information | |

| Defect ID: | DEFECT000604015 |
|---|---|
| **Technical Severity:** High | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** BGP4 - IPv4 Border Gateway Protocol |
| **Symptom:** BGP Adjacency flaps when the keepalive time is low. | |
| **Condition:** BGP Adjacency flaps when configured with low keep alive times and the hardware is being programmed with high number of v4 routes (>150k v4 routes). | |

| Defect ID: | DEFECT000612370 |
|---|---|
| **Technical Severity:** High | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Monitoring |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** RAS - Reliability, Availability, and Serviceability |
| **Symptom:** License daemon may have unexpected reload after repeated power cycles of line card. This was caused by not properly released sysFPGA device object. | |
| **Condition:** License daemon unexpected reload with stack trace showing sysfpga_open() as last function call. | |

| Defect ID: | DEFECT000613000 |
|---|---|
| **Technical Severity:** Critical | **Probability:** Medium |
| **Product:** Brocade SLX-OS | **Technology Group:** Management |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** Software Installation & Upgrade |
| **Symptom:** Third Party VM Installation will fail on SLX9850-8 Chassis | |
| **Condition:** This occurs at 100% if the platform is SLX9850-8. To check for platform type, run 'show chassis'. | |

| Defect ID: | DEFECT000613759 |
|---|---|
| **Technical Severity:** High | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Monitoring |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** OAM - Operations, Admin & Maintenance |
| **Symptom:** When sFlow on MPLS transit node is enabled, it may exhaust memory slowly and system incur an unexpected reload after long time. | |
| **Condition:** MPLS P router, with traffic on all ports and sFlow enabled. | |

| Defect ID: | DEFECT000618124 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** MCT - Multi-Chassis Trunking |
| **Symptom:** In a router reload scenario where ingress and egress interfaces are on two different Interface Modules, sometimes MACs are incorrectly learned on VLAN associated with inter-chassis link. The MACs will be aged out and deleted automatically. | | |
| **Condition:** The issue is seen occasionally during router reload with scaled configuration where the ingress and egress interfaces are on two different Interface Modules | | |

| Defect ID: | DEFECT000620610 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** VLAN - Virtual LAN |
| **Symptom:** The default VLAN tag might not be added for the egress traffic when "no vlan dot1q tag native" is present under the switch port configuration. The behavior mentioned in defect is expected with the specified configuration. | | |
| **Condition:** This behavior will be observed only when the switch port is configured with "no vlan dot1q tag native". | | |
| **Workaround:** Remove the configuration "no vlan dot1q tag native" | | |
| **Recovery:** The behavior mentioned in defect is expected with the specified configuration. User has to remove the configuration "no vlan dot1q tag native" from switch port. | | |

| Defect ID: | DEFECT000620988 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Traffic Management |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** QoS - Quality of Service |
| **Symptom:** The VOQ occupancy displayed in "show tm non-empty" may show less than what customer configured. | | |
| **Condition:** User configure VOQ max queue size to high value >= 512MB. User transmit traffic with small packet sizes. Egress queue is congested. | | |
| **Workaround:** Keep the VOQ max queue size low or at default value of 1MB. In case an increase is required due to traffic condition, suggestion is to keep the VOQ size less than 512MB. | | |
| **Recovery:** Stop traffic to allow VOQ to drain. Configure VOQ max queue size to smaller value < 512MB. | | |

| Defect ID: | DEFECT000622339 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** MCT - Multi-Chassis Trunking |
| **Symptom:** When interface is shut instead of flushing the MAC addresses immediately, addresses will be present till MAC table until age timer expires and gets deleted. | | |
| **Condition:** In scale scenarios when the rate of traffic is more, though associated interface is brought down, MAC learn might happen for old learned event and need to wait for MAC age time to see MAC get deleted. Has no functionality impact as the associated interface is already down. | | |
| **Workaround:** The issue recovers by itself within configured MAC age time. | | |
| **Recovery:** The issue recovers by itself within configured MAC age time. Can also use "clear mac-address-table dynamic" commands to recover quickly. | | |

| Defect ID: | DEFECT000623041 | |
|---|---|---|
| Technical Severity: High | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Monitoring |
| Reported In Release: SLXOS 16r.1.01 | | Technology: sFlow |
| Symptom: When issuing 'show sflow linecard <LC#>' command, the statistics displayed against the sFlow collector IP, which is reachable through the management module mgmt port, is zero. The statistics displayed do not reflect the actual sFlow datagrams that are forwarded to that collector from that interface module (LC). However, the sFlow statistics for other collectors that are reachable through interface module inband/data ports are accurate. | | |
| Condition: Since the interface module doesn't directly send out the sFlow datagram to next hop, it's not incrementing the statistics for that collector.<br><br>It's not advisable to configure sFlow collectors which are reachable through the management module mgmt port since it adds management module CPU and backplane overhead. This is because the interface module has to forward the sFlow datagram to the management module and management module in turn has to send this out through its mgmt port. | | |
| Workaround: Use 'show sflow' or 'show sflow all' to get accurate statistics for all the sFlow collectors. | | |

| Defect ID: | DEFECT000623125 | |
|---|---|---|
| Technical Severity: High | | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Security |
| Reported In Release: SLXOS 16r.1.01 | | Technology: ACLs - Access Control Lists |
| Symptom: When deny ACL and mirroring happens on same packet, then the ACL statistics are not updated. WA: If we take out mirroring, the statistics work fine | | |
| Condition: When mirroring and ACL are configured together this issue is seen. | | |

| Defect ID: | DEFECT000624154 | |
|---|---|---|
| Technical Severity: High | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Layer 2 Switching |
| Reported In Release: SLXOS 16r.1.01 | | Technology: MCT - Multi-Chassis Trunking |
| Symptom: After "LC-power-off; HA failover; LC-power-on", the mct-client interfaces on that linecard continue to stay DOWN. | | |
| Condition: This condition occurs when the following is met:<br>-  MCT Cluster-config has some clients with client-interface configuration<br>-  Those client-interfaces are on a LC which is in power-off state.<br>-  User is doing "ha failover" [with some LCs in power-off state which has mct-client interfaces].<br>-  After HA-failover, user does "power-on LC#". | | |
| Recovery: Remove mct-client interface config and re-add. | | |

| Defect ID: | DEFECT000624534 | |
|---|---|---|
| Technical Severity: High | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Layer 2 Switching |
| Reported In Release: SLXOS 16r.1.01 | | Technology: MCT - Multi-Chassis Trunking |
| Symptom: After HA failover, LSP is stuck in interface module with reason PRE-ADD. ARP for the respective MPLS out-int is un-resolved but MAC is learned. The MAC address is not resolved for the ARP entry. Ping will work from the management module. | | |
| Condition: This happens for an ARP entry on a VE after management module failover. | | |

| Defect ID: | DEFECT000625363 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** BGP4 - IPv4 Border Gateway Protocol |
| **Symptom:** Duplicate ping responses might be received after cluster no deploy, then HA failover and then cluster deploy. | | |
| **Condition:** Duplicate ping responses might be received after cluster no deploy, then HA failover and then cluster deploy. | | |

| Defect ID: | DEFECT000625496 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** VLAN - Virtual LAN |
| **Symptom:** Very rare occurrence due to timing to bring SFM out of reset, recover after SFM reset. | | |
| **Condition:** Very rare occurrence due to timing to bring SFM out of reset, recover after SFM reset. | | |

| Defect ID: | DEFECT000625505 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** Traffic Management |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** Traffic Queueing and Scheduling |
| **Symptom:** Rarely the SFM goes faulty in the case where one FE Initialized and a 2nd FE fails to complete initialization. | | |
| **Condition:** It looks this is rare case for SFM to go faulty in this case one FE Initialized and 2nd FE has some glitch to complete Init, workaround is to power-off faulty SFM or reset SFM to bring-up SFM to enabled state. | | |
| **Workaround:** The workaround is to power-off the faulty SFM or reset the SFM to bring-up the SFM to an enabled state | | |

| Defect ID: | DEFECT000625661 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** BGP4 - IPv4 Border Gateway Protocol |
| **Symptom:** Forwarding from CEP to CCEP fails after HA | | |
| **Condition:** Unlikely user scenario | | |

| Defect ID: | DEFECT000625673 | |
|---|---|---|
| **Technical Severity:** Medium | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** Management |
| **Reported In Release:** SLXOS 16r.1.00 | | **Technology:** CLI - Command Line Interface |
| **Symptom:** In previous SLX releases, Power Supply Units with 100V power source may be indicated as "Power Consume Factor: 3000" .This issue has been fixed in the 17r.1.00 release. | | |
| **Condition:** Previously the software did not identify different types of PSU. This was fixed later in the current release. | | |

| Defect ID: | DEFECT000626069 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** MCT - Multi-Chassis Trunking |
| **Symptom:** This issue is resolved and closed in SLXOS 17r.1.00 | | |
| **Condition:** This issue is resolved and closed in SLXOS 17r.1.00 | | |

| Defect ID: | DEFECT000626442 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** VRRPv2 - Virtual Router Redundancy Protocol Version 2 |
| **Symptom:** The VRRP backup router continue to route traffic even after the SPF is disabled. | | |
| **Condition:** The VRRP backup router continue to route traffic even after the SPF is disabled. This happened due to the issue in the MAC sync logic when the SPF is configured and then SPF is disabled. | | |

| Defect ID: | DEFECT000626832 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** MCT - Multi-Chassis Trunking |
| **Symptom:** In MCT scenario, when client is un-deployed, BUM traffic is sent towards the client | | |
| **Condition:** User does client un-deploy on end in MCT configuration | | |

| Defect ID: | DEFECT000627390 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 17s.1.00 | | **Technology:** IPv6 Addressing |
| **Symptom:** IPv6 nd address may not get suppressed by using this command. | | |
| **Condition:** The issue is seen only when ipv6 nd address <address> suppress command is used. | | |

| Defect ID: | DEFECT000627610 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Monitoring |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** RAS - Reliability, Availability, and Serviceability |
| **Symptom:** On Linux shell entry and exit, RASLOG message is displayed with an additional line space. | | |
| **Condition:** This happens when the user enters Linux shell from SLX CLI using 'start-shell' command and exits from Linux shell to SLX CLI using 'exit' command. | | |
| **Recovery:** Not Applicable | | |

| Defect ID: | DEFECT000629051 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** MPLS |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** MPLS VPLS - Virtual Private LAN Services |
| **Symptom:** Sometimes for PWs with load-balanced LSPs , FEC deletion can fail | | |
| **Condition:** In rare cases this can cause PW lockup for FEC deletions | | |

| Defect ID: | DEFECT000629066 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** GRE - Generic Routing Encapsulation |
| **Symptom:** In some scaling cases, GRE next-hop is not correctly programmed causing traffic loss. | | |
| **Condition:** This is seen in scaling scenario with large number of GRE tunnels. | | |

| Defect ID: | DEFECT000629155 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** BGP4 - IPv4 Border Gateway Protocol |
| **Symptom:** In some scenarios, when cluster/client are flapped while auto-LSP is coming up, traffic received over EVPN PO on MCT DF peer is dropped | | |
| **Condition:** This is seen in rare timing scenarios | | |

| Defect ID: | DEFECT000630883 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** VLAN - Virtual LAN |
| **Symptom:** In previous release image, customer can see packet loss if running 72% load of traffic in snake test. | | |
| **Condition:** This only happen if snake test is using device local switch.  It does not happen if running snake test across fabric. | | |

| Defect ID: | DEFECT000633158 | |
|---|---|---|
| **Technical Severity:** Medium | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Traffic Management |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** QoS - Quality of Service |
| **Symptom:** You might observe max utilization to be more than 100% in case when customized maximum queue size is configured for respective device and traffic class. | | |
| **Condition:** This conditions arises if you configures/changes maximum queue size for device and traffic class to be greater than 1 MB. | | |
| **Workaround:** There is no work around if maximum queue size is changed to value other than default. | | |
| **Recovery:** To have accurate max utilization, configuration to change max queue size needs to be removed and voq statistics needs to be cleared. | | |

| Defect ID: | DEFECT000633503 | |
|---|---|---|
| **Technical Severity:** Medium | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Security |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** ACLs - Access Control Lists |
| **Symptom:** When the LACP port-channel interface is flapped, traffic that match the deny rules of the inbound MAC access-list and supposed to be dropped get permitted for a duration of ~3 seconds. | | |
| **Condition:** LACP port-channel interface created with one or more members on a packet processor. MAC access-list with permit / deny rules bound on the port-channel interface. Traffic received on the port-channel interface is hitting deny rules and getting dropped. Port-channel interface is flapped by executing "shutdown", "no shutdown" commands on the port-channel interface or on the member interface which is the last operational member on the packet processor. | | |
| **Recovery:** Issue is fixed in SLXOS17r.1.00. | | |

# Closed without code changes

This section lists software defects with Critical, High, and Medium Technical Severity closed without a code change as of 3/29/2017 in 17r.1.00.

| | |
|---|---|
| **Defect ID:** DEFECT000568354 | **Technical Severity:** High |
| **Reason Code:** Will Not Fix | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** BGP4 - IPv4 Border Gateway Protocol |
| **Symptom:** When BGP shortcut or IPoMPLS feature is enabled, the BGP routes resolved over MPLS tunnels are not displayed with LSP tunnel name as the outgoing interface. LSP name is not displayed in "show ip route" and "show ip bgp route" outputs. | |
| **Condition:** Enabling BGP next-hop-mpls CLI | |

| | |
|---|---|
| **Defect ID:** DEFECT000586541 | **Technical Severity:** Medium |
| **Reason Code:** Will Not Fix | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Management |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** CLI - Command Line Interface |
| **Symptom:** The "tab" key does not work properly for "show log ras" command | |
| **Condition:** There are few known issues where "tab" doesn't work as expected in exec mode. The "show log ras" followed by "tab" shows unintended behavior and expands to "logical-interface raslog". | |

| | |
|---|---|
| **Defect ID:** DEFECT000596234 | **Technical Severity:** Medium |
| **Reason Code:** Not Reproducible | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** SDN |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** OpenFlow |
| **Symptom:** If a flow is sent with an output port that is not in openflow port list then no error message is returned to the controller. | |
| **Condition:** This is an external error failsafe mechanism that is not working. | |
| **Workaround:** Please do not send any flows with an out port that is not in the openflow output port table. | |
| **Recovery:** Please obtain the flow id using "show openflow flow" and delete the incorrect flow using 'clear openflow flowid <flowid>' | |

| | |
|---|---|
| **Defect ID:** DEFECT000598616 | **Technical Severity:** Medium |
| **Reason Code:** Not Reproducible | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** Multi-VRF |
| **Symptom:** Traffic is not forwarded to leaked static route with physical interface as next-hop | |
| **Condition:** Configure static routes in 2 VRFs with next hop as the physical interface and leak the static route into VRFs. Traffic is not sent for the leaked static route. | |

| | |
|---|---|
| **Defect ID:** DEFECT000600811 | **Technical Severity:** High |
| **Reason Code:** Not Reproducible | **Probability:** Medium |
| **Product:** Brocade SLX-OS | **Technology Group:** IP Multicast |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** PIM - Protocol-Independent Multicast |
| **Symptom:** PIM Sparse configuration is not allowed to be deleted from VE interface. | |
| **Condition:** This issue is seen after multiple MP switchover | |

| | |
|---|---|
| **Defect ID:** DEFECT000601049 | **Technical Severity:** Medium |
| **Reason Code:** Feature/Function Not Supported | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** Multi-VRF |
| **Symptom:** Traffic loss is seen with a static route leaking traffic into the management VRF | |
| **Condition:** Leaking static route between mgmt-vrf and another vrf in the router. | |

| | |
|---|---|
| **Defect ID:** DEFECT000601605 | **Technical Severity:** High |
| **Reason Code:** Will Not Fix | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** BGP4+ - IPv6 Border Gateway Protocol |
| **Symptom:** Update the existing value of BGP ADVERTISEMENT INTERVAL "neighbor \<ip\> advertisement-interval \<intval\>" value will not restart the advertisement timer. BGP used to send the update message with previous internal passed time out. | |
| **Condition:** Updates existing value of BGP ADVERTISEMENT INTERVAL for sending "BGP UPDATE" to peer node. | |

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|---|---|
| **Defect ID:** DEFECT000603085 | **Technical Severity:** High |
| **Reason Code:** Not Reproducible | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** MPLS |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** IP over MPLS |
| **Symptom:** The chassis may experience LACP flap. Other control protocols could may experience similar flaps | |
| **Condition:** When all following conditions met:<br>1. Configuring the traffic topology as IPoverMPLS,<br>2. Configuring sflow on involved interface of SLX9850 platform,<br>3. Passing IPoverMPLS traffic into the SLX9850 with packet size less than 128 bytes.<br>4. sflow sampled packet rate are high (> 1 k pps)<br><br>IPoMPLS sflow packets at high rate 70% of line rate can slow down CPU path. | |
| **Workaround:** Any or combination of the followings will reduce the likely hood of LACP flapping:<br><br>1. Reduce traffic rate.<br>2. Reduce the configured sflow sampling frequency.<br>3. Reduce the percentage of the packets in the traffic stream whose size is less than 128 bytes. | |
| **Recovery:** Similar to the workaround options. Basically need to reduce IPoMPLS sflow packets to recover from LACP flapping. | |

| | |
|---|---|
| **Defect ID:** DEFECT000603457 | **Technical Severity:** High |
| **Reason Code:** Not Reproducible | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Management |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** Configuration Fundamentals |
| **Symptom:** Following messages appear on the console:<br>mi_xmit_ack_msg: dev_queue_xmit failed: 1<br>and<br>mi6_send_ack: %% lost an ACK %% dev_queue_xmit 1 | |
| **Condition:** VPLS peers are flapped with scaled neighbors. | |
| **Recovery:** Reload the system. | |

| Defect ID: DEFECT000603808 | Technical Severity: High |
|---|---|
| Reason Code: Not Reproducible | Probability: Medium |
| Product: Brocade SLX-OS | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 16r.1.00 | Technology: Static Routing (IPv4) |
| **Symptom:** Static IP routes might not be removed from the static route table after being deleted from configuration. "show ip static route" still shows the static routes. Routes are actually deleted from RIB and FIB. | |
| **Condition:** Deletion of static routes after system just comes up. | |
| **Recovery:** Reconfiguring and removing the static route again may recover from the issue. | |

| Defect ID: DEFECT000603907 | Technical Severity: High |
|---|---|
| Reason Code: Not Reproducible | Probability: Medium |
| Product: Brocade SLX-OS | Technology Group: Management |
| Reported In Release: SLXOS 16r.1.00 | Technology: High Availability |
| **Symptom:** Coexistence of OpenFlow and ACLs cause non-deterministic behavior | |
| **Condition:** OpenFlow and ACLs coexisting on the same port is not supported in SLX-OS 16r.1.01 | |

| Defect ID: DEFECT000604240 | Technical Severity: Medium |
|---|---|
| Reason Code: Already Fixed in Release | Probability: High |
| Product: Brocade SLX-OS | Technology Group: IP Multicast |
| Reported In Release: SLXOS 16r.1.00 | Technology: PIM - Protocol-Independent Multicast |
| **Symptom:** Show running config shows, "ssm-enable range prefixSSM" without explicit configuration by user. | |
| **Condition:** Disable/Enable of "ssm-enable" configuration. | |
| **Workaround:** customer ssm range is usually static, if needs to be change after disable and enable, customer can configure the new range explicitly as a workaround | |

| Defect ID: DEFECT000604495 | Technical Severity: High |
|---|---|
| Reason Code: Not Reproducible | Probability: High |
| Product: Brocade SLX-OS | Technology Group: Layer 2 Switching |
| Reported In Release: SLXOS 16r.1.00 | Technology: MCT - Multi-Chassis Trunking |
| **Symptom:** Startup configuration is not replayed into running configuration after doing "copy flash://<file> startup-config" and reload system. | |
| **Condition:** If startup config reply is in progress during system reload and unexpected reboot (power cycle, software panic reboot) is triggered, startup configuration may not get replayed into running configuration. | |
| **Workaround:** Do not power cycle the device until the device reaches active state. | |
| **Recovery:** When system comes up after reload retry "copy flash://<file> startup-config" command and reload the system. | |

| Defect ID: DEFECT000606037 | Technical Severity: High |
|---|---|
| Reason Code: Not Reproducible | Probability: Low |
| Product: Brocade SLX-OS | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 16r.1.00 | Technology: ARP - Address Resolution Protocol |
| **Symptom:** Arp aging time is not getting refreshed after set value in arp-aging-timeout. | |
| **Condition:** Arp aging time is not getting refreshed after set value in arp-aging-timeout. | |

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|---|---|
| **Defect ID:** DEFECT000606460 | **Technical Severity:** Medium |
| **Reason Code:** Not Reproducible | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** ARP - Address Resolution Protocol |
| **Symptom:** An ARP entry cannot be cleared with "VE Interface" option. However without specifying the L3 interface option the ARP entry can be cleared. | |
| **Condition:** Clearing an ARP entry by specifying the "L3 interface". | |

| | |
|---|---|
| **Defect ID:** DEFECT000606697 | **Technical Severity:** Medium |
| **Reason Code:** Not Reproducible | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 16r.1.00 | **Technology:** ARP - Address Resolution Protocol |
| **Symptom:** For a static ARP entry, the MAC may not be resolved, i.e. MAC to port binding, which is resolved when a MAC is learned. | |
| **Condition:** There is no specific sequence or condition. It happens randomly with a low probability. | |

| | |
|---|---|
| **Defect ID:** DEFECT000623104 | **Technical Severity:** High |
| **Reason Code:** Not Reproducible | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** IP Multicast |
| **Reported In Release:** SLXOS 16r.1.01 | **Technology:** IPv4 Multicast Routing |
| **Symptom:** With multicast configuration (rp-address) stored in startup configuration, post reboot, default *,G/m entries are not programmed in hardware. | |
| **Condition:** Specific to Multicast using Anycast RP. | |
| **Workaround:** Reconfigure RP address after system reload/post upgrade to program default entries in hardware. | |

| | |
|---|---|
| **Defect ID:** DEFECT000624263 | **Technical Severity:** High |
| **Reason Code:** Not Reproducible | **Probability:** High |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 16r.1.01 | **Technology:** MCT - Multi-Chassis Trunking |
| **Symptom:** ARP is not resolved for the next hop IP address. | |
| **Condition:** The issue can happen on a MCT VE after MM failover. The condition seems to recover after sometime. | |

| | |
|---|---|
| **Defect ID:** DEFECT000625278 | **Technical Severity:** High |
| **Reason Code:** Not Reproducible | **Probability:** Medium |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 16r.1.01 | **Technology:** MCT - Multi-Chassis Trunking |
| **Symptom:** If the cluster-client-interfaces are shutdown and ha-failover is done; after the ha-failover if the user tries to restore the cluster-client-interfaces, then if any of the client's interfaces are on the LACP port-channels then those clients' interfaces do not come up online. The symptom is LACP port-channels stays down | |
| **Condition:** Three conditions<br>1. Shutdown cluster-client-interfaces<br>2. HA Failover<br>3. Restore cluster-client-interfaces | |
| **Workaround:** Workaround is to remove the cluster-client-interfaces and add again. | |
| **Recovery:** Recovery is to remove the cluster-client-interfaces and add again. | |

## Known issues

This section lists open software defects with Critical, High, and Medium Technical Severity as of 3/29/2017 in 17r.1.00.

| Defect ID: | DEFECT000588941 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 16r.1.00 | | **Technology:** xSTP - Spanning Tree Protocols |
| **Symptom:** Help command is not working with port-channel range command | | |
| **Condition:** This is another case where help command question mark "?" doesn't work as expected in exec mode. Under port-channel, "spanning-tree" followed by "tab" or "?" does not show correct completion items. | | |

| Defect ID: | DEFECT000592771 | |
|---|---|---|
| **Technical Severity:** Medium | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Monitoring |
| **Reported In Release:** SLXOS 16r.1.00 | | **Technology:** OAM - Operations, Admin & Maintenance |
| **Symptom:** When trace-l2 is performed and the resultant trace has more than one hop, the total round trip time displayed is not correct if input path and output path is from different linecards. For example, in the following output, total round trip time and per hop time are different.<br><br>MMVM# trace-l2 vlan 120 2.3.4.5<br>trace-l2 reply vlan 120 from e1/15, 2.3.4.5, total round trip = 4686 microsec<br> hop input    output    IP and/or MAC address    microsec comment<br> 1   e9/1     e9/5    120.x.x.x xxxx.xxxx.xxxx    3482 STP<br> 2   e15/5   e4/7    3.3.3.3 xxxx.xxxx.xxxx     0 STP<br> 3   e1/61        2.3.4.5 xxxx.xxxx.xxxx     900808 RPVST<br>MMVM# | | |
| **Condition:** 1)Trace-l2 is performed from the SLX-9850 platform<br>2) There should be an intermediate hop which is a device that supports trace-l2 that forwards the trace to the connected devices.<br>3) The hop's input port and output port should be from different line cards. | | |

| Defect ID: | DEFECT000598990 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** SDN |
| **Reported In Release:** SLXOS 16r.1.00 | | **Technology:** OpenFlow |
| **Symptom:** When SLX chassis and MLX are connected as LLDP peers, the OpenFlow Flow is installed to Send the LLDP Frames to the OpenFlow controller does not work. | | |
| **Condition:** Coexisting OpenFlow and LLDP is not supported. | | |

| Defect ID: | DEFECT000599901 | |
|---|---|---|
| **Technical Severity:** Medium | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** SDN |
| **Reported In Release:** SLXOS 16r.1.00 | | **Technology:** OpenFlow |
| **Symptom:** In the OpenFlow message OFPST_TABLE reply message some of the fields - i.e. counters for number of packets lookup in table and the number of packets that hit table are 0. | | |
| **Condition:** This happens when the OpenFlow controller sends a OFPST_TABLE request to the OpenFlow switch (SLX9850) and the switch replies with these two counters<br>- i.e. number of packets lookup in table and the number of packets that hit table with 0 values. | | |

| Defect ID: | DEFECT000600029 | |
|---|---|---|
| Technical Severity: Medium | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 16r.1.00 | | Technology: OSPFv3 - IPv6 Open Shortest Path First |
| Symptom: If startup config has L3 QoS map on ve interface, then reload may cause unicast rx to fail. | | |
| Condition: In reload scenario, this issue occurs sometime. | | |
| Workaround: Remove QoS map from ve interface and apply it after reload. | | |
| Recovery: Reload the box after removing QoS map | | |

| Defect ID: | DEFECT000600343 | |
|---|---|---|
| Technical Severity: Medium | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Monitoring |
| Reported In Release: SLXOS 16r.1.00 | | Technology: Port Mirroring |
| Symptom: The port channel member port is allowed to be configured as a source port in a monitor session. | | |
| Condition: Always happens. | | |

| Defect ID: | DEFECT000600383 | |
|---|---|---|
| Technical Severity: High | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 16r.1.01 | | Technology: BGP4+ - IPv6 Border Gateway Protocol |
| Symptom: BGP aggregated ipv6 prefix route might not be programmed into hardware table. | | |
| Condition: Route entry for aggregate prefix is not added into the RIB manager if redist static cmd is present in the IPv6 under BGP. | | |

| Defect ID: | DEFECT000601668 | |
|---|---|---|
| Technical Severity: High | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 16r.1.00 | | Technology: ICMP - Internet Control Message Protocol |
| Symptom: After node power-cycle, ICMP rate-limit configured under Management interface has no effect | | |
| Condition: After node power-cycle, ICMP rate-limit configured under Management interface has no effect | | |
| Workaround: Reconfigure ICMP rate limiting on management interface | | |

| Defect ID: | DEFECT000602515 | |
|---|---|---|
| Technical Severity: Medium | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Monitoring |
| Reported In Release: SLXOS 16r.1.00 | | Technology: Port Mirroring |
| Symptom: A port channel is allowed to be configured as destination in a monitor session, where one of the member port of this port channel is a source port of another monitor session. | | |
| Condition: When port channel has to be configured as a destination port of monitor session. | | |

| Defect ID: | DEFECT000603879 | |
|---|---|---|
| Technical Severity: High | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: SDN |
| Reported In Release: SLXOS 16r.1.00 | | Technology: OpenFlow |
| Symptom: When OpenFlow is enabled on an interface in SLX chassis. When the interface state is flapped, the switch sends 2 OpenFlow port status "Modify" messages to the OpenFlow controller. | | |
| Condition: When the state of OpenFlow interface changes, two port status messages are sent to the controller. One message for the admin state change and one for operational state change. | | |

| Defect ID: | DEFECT000607429 | |
|---|---|---|
| Technical Severity: High | | Probability: Low |
| Product: Brocade SLX-OS | | Technology Group: SDN |
| Reported In Release: SLXOS 16r.1.00 | | Technology: OpenFlow |
| Symptom: Customer sees OpenFlow interface DOWN via 'show OpenFlow interface' command and therefore traffic not forwarded. However the underlying 'show interface status' may show the interface up. | | |
| Condition: During multiple iterations of port mode from 40G to 100G to 40G, we can come to a state where the underlying interface command shows the interface up but that is not honored by the OpenFlow module. It considers the interface down. | | |

| Defect ID: | DEFECT000615515 | |
|---|---|---|
| Technical Severity: High | | Probability: Low |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 17r.1.00 | | Technology: ICMP - Internet Control Message Protocol |
| Symptom: Some IPv6 neighbors might not get resolved. | | |
| Condition: When clear ipv6 neighbor command is used with no-refresh or force-delete option continuously within 1 or 2 seconds. | | |
| Workaround: Avoid running the command multiple times within 2 seconds. | | |

| Defect ID: | DEFECT000618078 | |
|---|---|---|
| Technical Severity: High | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Layer 2 Switching |
| Reported In Release: SLXOS 16r.1.01 | | Technology: MCT - Multi-Chassis Trunking |
| Symptom: When the traffic running is stopped in certain scenarios, the MAC table could be out of sync between MCT nodes left with some stale CCR entries. | | |
| Condition: With higher MAC address table, after stopping the traffic and Clear the MAC address table some stale entries might be present. This issue does not cause any functional impact. If the traffic is resumed MAC learn will recover. | | |
| Workaround: Use the CMSH command "clear mac-address-table dynamic cluster-client-remote" to flush the state entries. | | |

| Defect ID: | DEFECT000618290 | |
|---|---|---|
| Technical Severity: High | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Layer 2 Switching |
| Reported In Release: SLXOS 16r.1.01 | | Technology: MCT - Multi-Chassis Trunking |
| Symptom: MCT peer-interface and client-interface configuration clean up not happening in back-end as part of "no linecard" trigger | | |
| Condition: When user performs the "no linecard" all the interface related, configuration is supposed to be deleted. However, the MCT peer-interface and client-interface configurations will not get deleted. | | |
| Workaround: As the client-interface is not present, there is no functionality impact. User can can consider removing the peer-interface and client-interface configuration. | | |
| Recovery: User to remove the client configuration to clean up and can add with new client-interface configuration if required. | | |

| Defect ID: | DEFECT000619953 | |
|---|---|---|
| Technical Severity: High | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 17r.1.00 | | Technology: IPv6 Addressing |
| Symptom: Traffic disruption will happen for IPv6 static routes configured with /128 prefix length. | | |
| Condition: The issue happens only with /128 IPv6 static routes. | | |

| Defect ID: | DEFECT000620771 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** IP Addressing | |
| **Symptom:** First IGMP leave message is honored but 2nd leave message for a different source but same Group from same port is ignored. | | |
| **Condition:** First IGMP leave message is honored but 2nd leave message for a different source but same Group from same port is ignored. | | |

| Defect ID: | DEFECT000620779 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** IP Addressing | |
| **Symptom:** IGMPv2 leave has no effect and mcache entry is not deleted if IGMPv3 is configured on the interface | | |
| **Condition:** IGMPv2 leave has no effect and mcache entry is not deleted if IGMPv3 is configured on the interface | | |

| Defect ID: | DEFECT000620856 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** BFD - BiDirectional Forwarding Detection | |
| **Symptom:** Command "clear bfd neighbors" is not supported. | | |
| **Condition:** Command "clear bfd neighbors" is not supported. | | |

| Defect ID: | DEFECT000622070 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Monitoring | |
| **Reported In Release:** SLXOS 16r.1.01 | **Technology:** RAS - Reliability, Availability, and Serviceability | |
| **Symptom:** Interface related RASLOG/syslog events do not have consistent naming format for interface name. Some report them with "port" prefix instead of "interface" and some report short name for interface (eth) instead of long name (Ethernet). | | |
| **Condition:** Applicable for some of the physical interface related RASLOG/syslog events. For example, link is UP event. | | |
| **Workaround:** Any external scripts looking for specific interface related events shall adopt to existing RASLOG format for that specific event. | | |

| Defect ID: | DEFECT000622808 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** MPLS | |
| **Reported In Release:** SLXOS 16r.1.01 | **Technology:** MPLS VPLS - Virtual Private LAN Services | |
| **Symptom:** REST API will not display MAC count information | | |
| **Condition:** VPLS MAC count is not displayed for operational-state uri's. | | |
| **Workaround:** Show mac count (CLI) can be used. | | |

| Defect ID: | DEFECT000623186 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Low | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** BGP4 - IPv4 Border Gateway Protocol | |
| **Symptom:** In extreme rare cases, if multiple daemons which all support process restart unexpectedly reload at the same time, system will trigger HA failover for recovery instead of individual daemon process restart. During this process, old active MM may see a kernel panic. But this will not impact HA failover. | | |
| **Condition:** This should only happen during extreme rare cases, if multiple daemons which all support process restart unexpectedly reload at the same time. | | |
| **Recovery:** This situation is self-recovered anyway since HA failover is triggered for this case. | | |

| Defect ID: | DEFECT000624194 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** IS-IS - IPv4 Intermediate System to Intermediate System | |
| **Symptom:** User may observe that ISIS/OSPF/BGP process will not function properly after restart | | |
| **Condition:** This issue may be observed when ISIS/OSPF/BGP process is restarted continuously | | |

| Defect ID: | DEFECT000625273 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** BGP4+ - IPv6 Border Gateway Protocol | |
| **Symptom:** In a scaled scenario where 2 or more BGP sessions are configured and more than 192k routes are learned from each of the peering sessions, some BGP sessions do not come up after BGP process restarts cold. | | |
| **Condition:** BGP Process restart should be enabled under "ha" using command "process-restart bgp" and BGP process should have restarted cold | | |

| Defect ID: | DEFECT000625364 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 2 Switching | |
| **Reported In Release:** SLXOS 16r.1.01 | **Technology:** LAG - Link Aggregation Group | |
| **Symptom:** After configuring 510 LACP lags with short timers, some LAGs can flap | | |
| **Condition:** system is scaled with large number of LAG (more than 500) | | |
| **Workaround:** Use LACP LAG with  long timers , if number of lags in system are more than 500 | | |

| Defect ID: | DEFECT000625644 | |
|---|---|---|
| Technical Severity: High | | Probability: Low |
| Product: Brocade SLX-OS | | Technology Group: Management |
| Reported In Release: SLXOS 16r.1.01 | | Technology: Software Installation & Upgrade |
| Symptom: Kernel panic with the below stack trace during a VM reload after the firmware download process<br><br>BUG: unable to handle kernel NULL pointer dereference at 0000017a<br>[ 151.728325] IP: [<81032d30>] atomic_inc+0x3/0x8<br>[ 151.728325] *pdpt = 000000002469a001 *pde = 0000000000000000<br>[ 151.728325] Oops: 0002 [#1] SMP<br>[ 151.728325] last sysfs file: /sys/devices/system/cpu/online<br>[ 151.728325] Modules linked in: sysfpga_drv_module ixgbevf wmdumper_module(P)<br>bootflash_drv_module iu_module(P) fss_module(P) linux_kernel_bde(P) trace_module(P)<br>fusion_pci_module syslock_module(P) haml_module(P) linux_user_bde(P) fablog_module(P)<br>mi_module(P) xprt_module isc_module(P) hasm_module(P) fabsys_module(P) hsl_module<br>switch_module(P) tp_module(P) ctm_module(P) vm_hotplug_drv_module ki_module(P)<br>raslog_module(P) chassis_module(P) portlog_module(P) basic_module cee_cp_module(P)<br>fcoe_module(P) fc_module(P) routing_module(P) f8_module(P)<br>[ 151.728325]<br>[ 151.728325] Pid: 6865, comm: netstat Taint | | |
| Condition: Rare timing scenarios in accessing files in the proc file system causes this issue. This causes VM to reload due to panic and as this happens immediately after firmware download and VM reload process, no functional impact is observed | | |

| Defect ID: | DEFECT000626443 | |
|---|---|---|
| Technical Severity: High | | Probability: Low |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 16r.1.01 | | Technology: ARP - Address Resolution Protocol |
| Symptom: Sometimes ARP may show as MAC unresolved although MAC is learnt. | | |
| Condition: The issue is seen after the MAC is deleted/learnt multiple times. | | |
| Workaround: Clearing MAC resolves the issue. | | |

| Defect ID: | DEFECT000628034 | |
|---|---|---|
| Technical Severity: High | | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Monitoring |
| Reported In Release: SLXOS 17r.1.00 | | Technology: OAM - Operations, Admin & Maintenance |
| Symptom: A warning message indicating "BUG: MAX_LOCKDEP_KEYS too low!" along with a kernel back trace | | |
| Condition: Under stressed load conditions issue is observed randomly in a rare timing scenario. No particular trigger to cause this issue. There is no functional impact | | |

| Defect ID: | DEFECT000628494 | |
|---|---|---|
| Technical Severity: High | | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: MPLS |
| Reported In Release: SLXOS 17r.1.00 | | Technology: LDP - Label Distribution Protocol |
| Symptom: Customer may see an unplanned reload of the MP during MP switchover with MPLS process exception | | |
| Condition: This issue may be observed during unplanned MP switchover with MPLS configuration. This issue will occur in dual MP configuration on modular SLX device. | | |
| Recovery: The MP will reload itself and clear the issue itself. Traffic loss will occur. | | |

| Defect ID: | DEFECT000629285 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** LAG - Link Aggregation Group |
| **Symptom:** LACP daemon terminates, when "show port-channel" command is run. | | |
| **Condition:** Issue is observed when:<br>       mlag is configured .<br>       "show port-channel" CLI is executed, before cluster is deployed. | | |
| **Workaround:** Configure mlag after cluster is deployed. | | |
| **Recovery:** Delete the mlag and reconfigure again after cluster is deployed. | | |

| Defect ID: | DEFECT000629326 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Traffic Management |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** Rate Limiting and Shaping |
| **Symptom:** "Broadcast" & "Multicast" portion of BUM RL will not support stats in "Openflow-optimized-3" Tcam profile.<br>       Hence BUM RL features using stats like automatic shutdown will not work in this tcam profile. | | |
| **Condition:** "Broadcast" & "Multicast" portion of BUM RL will not support stats in "Openflow-optimized-3" Tcam profile.<br>       Hence BUM RL features using stats like automatic shutdown will not work in this tcam profile. | | |

| Defect ID: | DEFECT000629433 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** MPLS |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** MPLS VPLS - Virtual Private LAN Services |
| **Symptom:** After HA some MAC address were learned in wrong BD. These entries eventually ageout and are deleted after 15-30 mins.<br>       The issue is transient (specific to HA scenario) without any functional impact | | |
| **Condition:** Issue happens after HA failover. | | |

| Defect ID: | DEFECT000629956 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Security |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** ACLs - Access Control Lists |
| **Symptom:** HSLAGTD daemon terminates followed by SSAGTD daemon termination. | | |
| **Condition:** Device is configured with scaled STP, VRRPe, VPLS, VLL, IGP routes, GRE and Multicast configuration. | | |

| Defect ID: | DEFECT000630152 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** BGP4+ - IPv6 Border Gateway Protocol |
| **Symptom:** When the command  "aggregate-address <ipv6 prefix>" is removed, the route entry corresponding to that IPv6 BGP aggregation is still present in the IPv6 routing table and can be seen in the output of "show ipv6 route" | | |
| **Condition:** IPv6 BGP aggregation should have been configured with command "aggregate-address <ipv6 prefix>"  and the route entry corresponding to  that aggregation is present in the IPv6 routing table and can be seen in the output of "show ipv6 route" | | |

| Defect ID: | DEFECT000630285 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** Security |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** ACLs - Access Control Lists |
| **Symptom:** On SLX-9540, ACL mirroring happens for traffic received on interfaces for which just ACL with mirror keyword is bound but ACL mirroring isn't explicitly enabled. | | |
| **Condition:** ACL with mirror keyword is bound on more than one interface but ACL mirroring is enabled globally for only one interface. | | |
| **Recovery:** unbind the access-list from interface and then bind on the interface | | |

| Defect ID: | DEFECT000630356 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Monitoring |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** Hardware Monitoring |
| **Symptom:** The following kernel reset might be observed during heavy concurrent file system operation, specifically file copy and scanning the files on the /proc and /sys directory simultaneously.<br><br>[ 82.948531] [acb37ec8] [<810c41bb>] vma_prio_tree_insert+0x1a/0x2c^M<br>[ 82.949188] [acb37ed8] [<810cfaaa>] __vma_link_file+0x52/0x55^M<br>[ 82.949795] [acb37ee0] [<810d0043>] vma_link+0x6c/0x9a^M<br>[ 82.950325] [acb37f00] [<810d12f5>] mmap_region+0x30e/0x42a^M<br>[ 82.951165] [acb37f54] [<810d16fb>] do_mmap_pgoff+0x2ea/0x30e^M | | |
| **Condition:** Rare timing scenarios in accessing files in the proc file system causes this issue. This causes VM to reload due to panic and as this happens immediately after firmware download and VM reload process, no functional impact is observed. | | |

| Defect ID: | DEFECT000630360 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Security |
| **Reported In Release:** SLXOS 17s.1.00 | | **Technology:** ACLs - Access Control Lists |
| **Symptom:** Applying "permit ipv6 any any" ipv6 access-list on management interface blocks all incoming management traffic (telnet,ssh, ntp etc.) | | |
| **Condition:** When IPv6 ACL with "permit ipv6 any any" rule applied on management interface. | | |
| **Workaround:** Work around is to have permit rule for each of the application ports<br>    SLX(conf-ip6acl-ext)# do show running-config ipv6 access-list<br>    ipv6 access-list extended 456<br>    seq 30 permit udp any eq ntp any<br>    seq 40 permit tcp any eq telnet any<br>    seq 50 permit tcp any eq 22 any<br>    seq 60 permit ipv6 any any | | |

| Defect ID: | DEFECT000630426 | |
|---|---|---|
| **Technical Severity:** Medium | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Security |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** DoS (Denial of Service) protection |
| **Symptom:** there is discrepancy when configuring a minimum CIR/EIR of 22Kb/s, Operational CIR/EIR value programmed will be shown as 21 Kb/s | | |
| **Condition:** Configuring the minimum information rate (CIR/EIR) of 22 Kb/s for a policer. | | |

| Defect ID: | DEFECT000630861 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** Management |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** Software Installation & Upgrade |
| **Symptom:** Line card went to faulty due to fibagt failure. | | |
| **Condition:** This issue can happen when user will power off/on line card in quick succession multiple times. User can avoid this issue if they give a gap of 110 sec between each cycle of power off/on | | |
| **Workaround:** Power off LC and power on. | | |

| Defect ID: | DEFECT000631065 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Security |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** ACLs - Access Control Lists |
| **Symptom:** LDP session with the VPLS peer node flaps once when ACL applied on VPLS endpoint is unconfigured and then reconfigured. | | |
| **Condition:** With TCAM scaled to its limit, user unconfigures and reconfigures the ACL on the VPLS endpoint. | | |

| Defect ID: | DEFECT000631093 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** Management |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** Configuration Fundamentals |
| **Symptom:** Line Card initialization shows on console "BUG: soft lockup - CPU#7 stuck for 65s! [nsm:4249]" and eventually the line card will be reset by Management due to long/infinite delay in initialization. | | |
| **Condition:** Rarely upon Line card reset. | | |

| Defect ID: | DEFECT000631504 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** BGP4+ - IPv6 Border Gateway Protocol |
| **Symptom:** BGP aggregate ipv6 prefix route might not be programmed into hardware table. | | |
| **Condition:** Route entry for aggregate prefix is not added into the RIB manager if only local ipv6 routes matches with aggregate routes present in the IPv6 under BGP and none of the remote learned ipv6 routes match with aggregate routes. | | |

| Defect ID: | DEFECT000631564 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Management |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** Configuration Fundamentals |
| **Symptom:** Kernel panic with the below error messages and stack traces.<br><br>BUG: unable to handle kernel NULL pointer dereference at 0000000 | | |
| **Condition:** When system is manually reloaded using the "reload" cli, this error kernel panic might occur due to rare timing scenarios in accessing files in the proc file system. This causes SLXOS VM to reload. Since this occurs during reload operation, there is no functional impact. | | |

| Defect ID: | DEFECT000631579 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** LAG - Link Aggregation Group |
| **Symptom:** Message Generic Error will be displayed in the console | | |
| **Condition:** execute enable lacp-pdu-forward cli command on switch port. | | |

| Defect ID: | DEFECT000632195 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Security | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** 802.1x Port Authentication | |
| **Symptom:** Incorrect interface status is shown as "show interface eth <port> line protocol down (authentication failed). The correct status should be "line protocol is down (Dot1x authenticating)" | | |
| **Condition:** Single Dot1x client is logged in followed by log off and the port has been put in down state | | |

| Defect ID: | DEFECT000632288 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** BGP4 - IPv4 Border Gateway Protocol | |
| **Symptom:** When using the BGP EVPN route filtering commands in Spine, CLI gives error.<br>show bgp evpn routes type arp 51.51.51.4 mac 0027.f8ca.b0aa ethernet-tag 0<br>----------------------------------------^<br>syntax error: unknown argument | | |
| **Condition:** When a user wants to check a specific EVPN mac routes and want to filter the routes with that specific mac. | | |
| **Workaround:** A user can get the list of all the EVPN mac routes and filter it manually. | | |

| Defect ID: | DEFECT000632350 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Security | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** ACLs - Access Control Lists | |
| **Symptom:** SSMD daemon termination which results in ACL functionality issue. | | |
| **Condition:** ACL is bound on a VPLS endpoint. unbind and bind the ACL on the interface continuously in a loop | | |

| Defect ID: | DEFECT000632383 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** VRRPv3 - Virtual Router Redundancy Protocol Version 3 | |
| **Symptom:** IPV6 neighbor not found for all the interfaces running VRRPe | | |
| **Condition:** In MCT setup with scaled configuration of more than 500 VRRP-E instances configured; the ND6 neighbors are not shown. | | |

| Defect ID: | DEFECT000632457 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** IP Multicast | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** PIM - Protocol-Independent Multicast | |
| **Symptom:** Traffic to some source in same vlan may not be sent. | | |
| **Condition:** When the last hop router is connected to first hop through same vlan and traffic is also sent on that vlan. | | |
| **Workaround:** Change the traffic to some other vlan. | | |
| **Recovery:** Connect the traffic source to some other vlan. | | |

| Defect ID: | DEFECT000632586 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** SDN |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** OpenFlow |
| **Symptom:** A discrepancy in flow counter is seen when OpenFlow flows are added and deleted continuously in a loop. | | |
| **Condition:** Should be published if the customer is doing any stress testing. This problem is not seen in the normal use cases | | |

| Defect ID: | DEFECT000632590 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** MCT - Multi-Chassis Trunking |
| **Symptom:** In scale scenario (>1K VRRP/E sessions), few of the sessions don't come up. | | |
| **Condition:** Reloading router with scaled VRRP configuration. | | |
| **Workaround:** By executing CLIs "shutdown" followed by "no shutdown" under the configured L3 interface, VRRP session will recover. | | |

| Defect ID: | DEFECT000632709 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** MBGP - Multiprotocol Border Gateway Protocol |
| **Symptom:** When a user wants to use a peer-group configuration under VPNV4/6 AF. | | |
| **Condition:** If there is a need to apply the peer-group configuration on a neighbor, then a user try to do a peer-group configuration under VPNV4/6 AF. | | |
| **Workaround:** A neighbor can be configured separately, rather than doing a peer-group configuration and assigning a neighbor to it. | | |

| Defect ID: | DEFECT000632742 | |
|---|---|---|
| **Technical Severity:** Medium | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Management |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** SNMP - Simple Network Management Protocol |
| **Symptom:** Wrong Type is displayed in snmpwalk/get output for some of the MIB objects. | | |
| **Condition:** Wrong Type is displayed only where there is a mismatch between the Syntax of MIB object described in MIB and what is returned. | | |

| Defect ID: | DEFECT000632830 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** BFD - BiDirectional Forwarding Detection |
| **Symptom:** After reload of Active MM, BFD session for BGP are not created in the new Active MM. | | |
| **Condition:** This issue occurs when only Active MM is reloaded using command "reload". | | |

| Defect ID: | DEFECT000632861 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** IP Multicast |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** IGMP - Internet Group Management Protocol |
| **Symptom:** Unexpected reload of mcast_ssdd and ospf6dd processes may be seen when more than 512 vlans with pim snooping enabled. | | |
| **Condition:** More than 512 vlans with pim snooping are enabled. The issue is seen very rarely. | | |

| Defect ID: | DEFECT000633011 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** SDN |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** OpenFlow |
| **Symptom:** The operational information of OpenFlow Meter installed in the REST query doesn't contain all the information | | |
| **Condition:** This defect should be disclosed if the customer is using REST APIs for OpenFlow. | | |

| Defect ID: | DEFECT000633021 | |
|---|---|---|
| **Technical Severity:** Medium | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 16r.1.01 | | **Technology:** LAG - Link Aggregation Group |
| **Symptom:** LACP port-channel interface flaps continuously resulting in incorrect traffic forwarding and filtering. | | |
| **Condition:** When a MAC access-list is bound to LACP port-channel interface where the LACP BPDUs matches a deny rule and get dropped. | | |
| **Workaround:** When a MAC ACL is created to be bound on a LACP port-channel interface, user can add a rule "permit any host 0180.c200.0002" as the first rule so that all LACP BPDUs match this rule and get permitted. | | |

| Defect ID: | DEFECT000633202 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Security |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** ACLs - Access Control Lists |
| **Symptom:** vlan match keywords in the MAC access-list rule configuration get replaced with "arp-guard" keyword. | | |
| **Condition:** Copy MAC access-list configuration (with rules containing match based on vlan, vlan-tag-format, inner-vlan-id) from TFTP to startup configuration. Reboot the system. | | |

| Defect ID: | DEFECT000633318 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Monitoring |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** Port Mirroring |
| **Symptom:** The following kernel stack trace message is seen when system reload CLI command is issued. [ 1890.395026] [a78c9c94] [<8101779b>] ? native_smp_send_reschedule+0x1e/0x4a^M [ 1890.395026] [a78c9c9c] [<8103f879>] warn_slowpath_common+0x77/0x8e^M [ 1890.395026] [a78c9cac] [<8101779b>] ? native_smp_send_reschedule+0x1e/0x4a^M [ 1890.395026] [a78c9cc4] [<8103f8cd>] warn_slowpath_null+0x15/0x17^M [ 1890.395026] [a78c9cd0] [<8101779b>] native_smp_send_reschedule+0x1e/0x4a^M | | |
| **Condition:** When system is manually reloaded using the "reload" cli, in rare scenarios due to race condition between CPU shutdown and being used. it sometimes dump the warning stack trace on the console. This is just warning and there is no functional impact. | | |

| Defect ID: | DEFECT000633478 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Low | |
| **Product:** Brocade SLX-OS | **Technology Group:** SDN | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** OpenFlow | |
| **Symptom:** The operation data sent in the response to the REST query to get OpenFlow resource information is missing some data. | | |
| **Condition:** This defect should be disclosed if the customer is using REST APIs for OpenFlow. | | |

| Defect ID: | DEFECT000633490 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** MPLS | |
| **Reported In Release:** SLXOS 16r.1.01 | **Technology:** LDP - Label Distribution Protocol | |
| **Symptom:** PW state changed during MM failover. LDP session state (from down to up is logged) Please note that LDP session state change is normal. | | |
| **Condition:** Customer performs HA failover (MM failover) with LDP Graceful Restart configuration | | |

| Defect ID: | DEFECT000633539 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** IPv6 Addressing | |
| **Symptom:** There will not be any impact over traffic flowing. Momentarily, traffic will flow over ICL link and then it will be restored back over client interface. | | |
| **Condition:** Configuring ipv6 address on ve interface can cause interface to get flapped momentarily. | | |

| Defect ID: | DEFECT000633648 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Low | |
| **Product:** Brocade SLX-OS | **Technology Group:** IP Multicast | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** IPv4 Multicast Routing | |
| **Symptom:** Global BSR and RP-candidate configuration replay will not happen when user reboot device after copying configuration from flash to startup-configuration. | | |
| **Condition:** In flash configuration copy, global configuration is replayed before replaying loopback interface configuration, BSR and rp-candidate configuration replay failed to apply as there is no loopback configuration available during global configuration replay. | | |
| **Workaround:** Workaround is to do DB copy for configuration instead of file copy. | | |
| **Recovery:** Recovery is to apply global configuration for BSR and RP-Candidate once the file replay is complete after reboot. | | |

| Defect ID: | DEFECT000633765 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 2 Switching | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** xSTP - Spanning Tree Protocols | |
| **Symptom:** When a port-channel is disabled by loop-detect, the "show loop-detection" output shows "Disabled Ports" field with the member ports of the port-channel along with displaying "port-channel" too. | | |
| **Condition:** When Loop detect is configured on the port-channel, and if there exists a loop, the "show loop-detection" output shows "Disabled Ports" field with the member ports of the port-channel along with displaying "port-channel" too. | | |

| Defect ID: | DEFECT000633791 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Security | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** ACLs - Access Control Lists | |
| **Symptom:** The error message "%Error: Access-list entry already exists at sequence number <seq_num>" gets printed even if the rules aren't duplicate. A few rules aren't added to the access-list because of this error. | | |
| **Condition:** Copy MAC access-list configuration from TFTP server to running configuration. | | |

| Defect ID: | DEFECT000633860 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 2 Switching | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** MCT - Multi-Chassis Trunking | |
| **Symptom:** IP host forwarding in hardware is delayed when there lot of (~100k) MAC learn events are generated by hardware. | | |
| **Condition:** The issue happens during the MAC learning for a lot of MACs (~100k). | | |

| Defect ID: | DEFECT000633933 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Traffic Management | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** Rate Limiting and Shaping | |
| **Symptom:** Customer may see small packet drop if running full mesh all 100G ports and full mesh 20 of 10G ports and all traffic are in 256B packet size. | | |
| **Condition:** Problem only happen if running full 800G mesh traffic at 256B | | |

| Defect ID: | DEFECT000633936 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 2 Switching | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** MCT - Multi-Chassis Trunking | |
| **Symptom:** Stale CCL entries may be seen in the system even though client interface is down, and traffic isn't coming through the client interface. | | |
| **Condition:** Large number of MACs (100K or more). Then, shut down the interface and stop traffic. | | |

| Defect ID: | DEFECT000633940 | |
|---|---|---|
| **Technical Severity:** Medium | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** SDN | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** OpenFlow | |
| **Symptom:** Some times after reload in the output of the CLI command "show OpenFlow controller", the same Controller output is displayed twice. | | |
| **Condition:** The "show openflow controller" CLI command output displays the same controller output twice | | |

| Defect ID: | DEFECT000633945 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Management | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** SNMP - Simple Network Management Protocol | |
| **Symptom:** Customer: Community string displayed in clear text in raslog. | | |
| **Condition:** This community string will appear as part of raslog, when a community is configured from CLI. | | |

| Defect ID: | DEFECT000634037 | |
|---|---|---|
| Technical Severity: Medium | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: IP Multicast |
| Reported In Release: SLXOS 17r.1.00 | | Technology: PIM - Protocol-Independent Multicast |
| Symptom: Very few pim control packets may be exchanged intermittently between SLX devices. | | |
| Condition: When source is directly connected to non-DR and non-DR and DR are connected by a snooping switch, the switch floods the register stop message to both. | | |
| Workaround: non-DR and DR should Enot be connected by snooping switch. | | |
| Recovery: This does not cause any functionality issue. Else stop the traffic at non DR. | | |

| Defect ID: | DEFECT000634167 | |
|---|---|---|
| Technical Severity: High | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Layer 2 Switching |
| Reported In Release: SLXOS 17r.1.00 | | Technology: xSTP - Spanning Tree Protocols |
| Symptom: Configure Loop Detect and ensure everything from Loop Detect works fine, now do a "Save and reboot system", once the device is up, do HA failover, and then observe Loop detect not working. Toggling "protocol loop-detection" command is a work around. | | |
| Condition: Configure Loop detection and do "save and reboot" of the device and now do HA failover, Loop detection feature stops working. | | |
| Workaround: Toggling global level command "protocol loop-detection" command will solve the issue (workaround). | | |

| Defect ID: | DEFECT000634195 | |
|---|---|---|
| Technical Severity: High | | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 17r.1.00 | | Technology: OSPFv3 - IPv6 Open Shortest Path First |
| Symptom: Ospfv3 will not form neighbor ship with IPsec authentication in MCT topology | | |
| Condition: Issue arises after configuring IPsec authentication in Ospfv3. | | |

| Defect ID: | DEFECT000634288 | |
|---|---|---|
| Technical Severity: High | | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Layer 2 Switching |
| Reported In Release: SLXOS 17r.1.00 | | Technology: MCT - Multi-Chassis Trunking |
| Symptom: With a scaled MCT EVPN configuration, linecard may reload. | | |
| Condition: Flapping cluster peers in a scaled MCT EVPN configuration. | | |

| Defect ID: | DEFECT000634305 | |
|---|---|---|
| Technical Severity: Medium | | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: IP Multicast |
| Reported In Release: SLXOS 17r.1.00 | | Technology: IGMP - Internet Group Management Protocol |
| Symptom: mrouter forwards IGMP report via mrouter ports. | | |
| Condition: Should not occur under normal maintenance operation; represents an unlikely user scenario. Will occur when Router is both FHR and LHR which is not desirable to be deployed. | | |

| Defect ID: | DEFECT000634317 | |
|---|---|---|
| Technical Severity: High | | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Layer 2 Switching |
| Reported In Release: SLXOS 17r.1.00 | | Technology: MCT - Multi-Chassis Trunking |
| Symptom: Support save operation from SSH session takes long time to complete. | | |
| Condition: Scaled MCT setup with active and standby MM | | |

| Defect ID: | DEFECT000634321 | |
|---|---|---|
| Technical Severity: | High | Probability: Low |
| Product: Brocade SLX-OS | | Technology Group: IP Multicast |
| Reported In Release: SLXOS 17r.1.00 | | Technology: IGMP - Internet Group Management Protocol |
| Symptom: mcast_sssd might reset under scaled configuration. | | |
| Condition: There are > 4K PIM (S,G) joint snooping entries. | | |

| Defect ID: | DEFECT000634331 | |
|---|---|---|
| Technical Severity: | High | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Traffic Management |
| Reported In Release: SLXOS 17r.1.00 | | Technology: Rate Limiting and Shaping |
| Symptom: Some policy map counters may stop working and show 0. | | |
| Condition: When system policy maps and class maps within the policy map are configured to the maximum allowed. | | |

| Defect ID: | DEFECT000634413 | |
|---|---|---|
| Technical Severity: | High | Probability: Low |
| Product: Brocade SLX-OS | | Technology Group: Layer 2 Switching |
| Reported In Release: SLXOS 17r.1.00 | | Technology: MCT - Multi-Chassis Trunking |
| Symptom: The line card may reboot or multicast traffic may not be sent to receiver. | | |
| Condition: This can happen during very scaled testing | | |
| Workaround: PIM should not be enabled on the system | | |
| Recovery: Reboot the system | | |

| Defect ID: | DEFECT000634493 | |
|---|---|---|
| Technical Severity: | High | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 17r.1.00 | | Technology: Multi-VRF |
| Symptom: CLI 'show ip route vrf <vrfname>' will show higher route count than the actual routes present. This issue arises whenever there are inter-vrf static route leak configuration is present and 'clear ip route vrf <vrfname>' is executed. With each 'clear' CLI, total count displayed by CLI 'show ip route vrf <vrfname>' will show a higher value. | | |
| Condition: This issue will surface only with inter-vrf static route configuration. And since it is easily reproducible, it should be published to avoid confusion. There is no functionality loss as the routes present will be correct. | | |
| Workaround: No workaround available. | | |

| Defect ID: | DEFECT000634512 | |
|---|---|---|
| Technical Severity: | Medium | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 17r.1.00 | | Technology: OSPFv3 - IPv6 Open Shortest Path First |
| Symptom: Info message stating "PR takes precedence over NSR" is should be displayed when 'non-stop-routing' is configured under 'ipv6 router ospf [vrf <vrf_name>]', if PR for ospfv3 is already enabled under ha. This info message is not shown now. This is not a functionality issue. | | |
| Condition: 1) PR should be enabled for OSPFv3 2) NSR configuration should follow PR configuration | | |

| Defect ID: | DEFECT000634520 | |
|---|---|---|
| Technical Severity: | High | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 17r.1.00 | | Technology: Multi-VRF |
| Symptom: When an IP Address is removed from a VE interface (either by executing CLIs like 'no ip address' or removing VRF configuration), L2 flood in underneath VLAN stops working. | | |
| Condition: Removal of IP Address could cause some issue with L2 forwarding programming. | | |

| Defect ID: | DEFECT000634553 | |
|---|---|---|
| Technical Severity: | High | Probability: Low |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 17r.1.00 | | Technology: ARP - Address Resolution Protocol |
| Symptom: This would not occur under normal conditions. This will happen when we create thousands of ARP entries at the same time with stress-to-fail testing and pushing the limits in the system and cause MAC age out at the same time. As a consequence, the ARP process continue handling major number of time-outs and do not access Watch dog in the system which causes an Abort Signal to the ARP process. | | |
| Condition: Major Stress-to-fail testing to cause heavy processing on ARP module. | | |

| Defect ID: | DEFECT000634601 | |
|---|---|---|
| Technical Severity: | High | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 17r.1.00 | | Technology: BFD - BiDirectional Forwarding Detection |
| Symptom: Some of the bfd sessions for bgp are in NA/Init/Down state | | |
| Condition: This condition happens when there's an L2 loop in the network due to two LAGs. When user deletes one of these LAGs, the L2 loop is broken, but some of the BFD sessions remain stuck in NA/Init/Down state. | | |
| Workaround: Issue clear ip(v6) bgp neighbor <> | | |

| Defect ID: | DEFECT000634763 | |
|---|---|---|
| Technical Severity: | Medium | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Management |
| Reported In Release: SLXOS 16r.1.01 | | Technology: SNMP - Simple Network Management Protocol |
| Symptom: In/Out Pkt/Bit rates, calculated using SNMP IF-MIB counters seem to differ from those reported by CLI command "show interface stats detail". | | |
| Condition: Occurs when traffic is passing through various interfaces and port utilization is calculated using external tools which poll SNMP interface counters periodically. The reason behind this is, the CLI Pkt/Bit rates are calculated in real-time and exported to the MM whereas, the Pkt/Bit counters are cached in MM and updated every 2 sec from the LCs. | | |
| Workaround: Use BROCADE-INTERFACE-STATS-MIB for getting accurate counts of In/Out Pkt/Bit rates and in/out port utilization percentage stats. | | |

| Defect ID: | DEFECT000634811 | |
|---|---|---|
| Technical Severity: | High | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: SDN |
| Reported In Release: SLXOS 17r.1.00 | | Technology: OpenFlow |
| Symptom: User can experience Lif encap allocation failure in scale scenario and OF may not be used for few of the ports. | | |
| Condition: In open flow Scale cases. Example: If OpenFlow L23 hybrid mode is enabled on all port, along with 2k vlans configured with all the ports member of these vlans. | | |

| Defect ID: | DEFECT000634833 | |
|---|---|---|
| Technical Severity: | High | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: Monitoring |
| Reported In Release: SLXOS 17r.1.00 | | Technology: sFlow |
| Symptom: The System supports a maximum of 4 sflow sample rate profiles.<br>If the user is trying to configure more that 4 sflow sample rate profile, the system will accept the command however it will report the following warning message.<br>"hsl_create_sflow_map: No more sflow map available." | | |
| Condition: The validation to reject the sFlow sample rate command is missing for the command interface. | | |
| Workaround: Do not configure more than 4 sFlow sample rate profile at a time. | | |
| Recovery: Remove the existing sFlow sample rate profile to create new ones. | | |

| Defect ID: | DEFECT000634886 | |
|---|---|---|
| Technical Severity: | High | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: MPLS |
| Reported In Release: SLXOS 16r.1.01 | | Technology: LDP - Label Distribution Protocol |
| Symptom: LDP session failed to from between 2 neighbors | | |
| Condition: Default route was added which included a next hop in the management vrf. For example :<br><br>    # ip route 0.0.0.0/0 next-hop-vrf mgmt-vrf 10.x.x.x | | |
| Workaround: Add the default route with different syntax   For example<br><br>    vrf mgmt-vrf<br>     address-family ipv4 unicast<br>     ip route 0.0.0.0/0 10.x.x.x | | |

| Defect ID: | DEFECT000634973 | |
|---|---|---|
| Technical Severity: | Medium | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: IP Multicast |
| Reported In Release: SLXOS 17r.1.00 | | Technology: IGMP - Internet Group Management Protocol |
| Symptom: In rare case, user can experience L2 multicast traffic loss in one of the link when user flaps multiple ports belong to the multicast stream which is in forwarding state. | | |
| Condition: Issue introduced when one of the port in L2 multicast entry failed to update in hardware resource allocated after the port flap. | | |
| Recovery: Recovery is to clean affected multicast stream. | | |

| Defect ID: | DEFECT000634984 | |
|---|---|---|
| Technical Severity: | High | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Management |
| Reported In Release: SLXOS 17r.1.00 | | Technology: CLI - Command Line Interface |
| Symptom: Running configuration can be backed up to a file on flash. This backed up file will not be visible on new active MM post HA failover. | | |
| Condition: HA failover should be triggered after backing up running configuration to file in flash | | |
| Workaround: Backup running configuration to external location using FTP | | |

| Defect ID: | DEFECT000634994 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** IP Multicast | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** PIM - Protocol-Independent Multicast | |
| **Symptom:** Traffic may not be load shared between common shared ECMP enabled interfaces. | | |
| **Condition:** 1) ECMP must be enabled.<br>            2) Multi paths need to be configured between devices. | | |
| **Workaround:** Disable ECMP or Keep single Path. | | |

| Defect ID: | DEFECT000635022 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** BGP4 - IPv4 Border Gateway Protocol | |
| **Symptom:** bgp neighborship success even with harddrop acl configured on ingress interface. | | |
| **Condition:** harddrop IP access list configured to drop bgp control packets. | | |
| **Workaround:** Configuring deny instead of harddrop works to solve the problem. | | |
| **Recovery:** Configuring deny instead of harddrop works to solve the problem. | | |

| Defect ID: | DEFECT000635105 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** BGP4 - IPv4 Border Gateway Protocol | |
| **Symptom:** Under BGP, for a neighbor "update-source" config is done with a VE interface.<br>            Now when the VE interface is deleted, the neighbor "update-source" config done under BGP is not<br>            deleted automatically. | | |
| **Condition:** Under BGP, for a neighbor "update-source" config is done with a VE interface.<br>            Now when the VE interface is deleted, the neighbor "update-source" config done under BGP is not<br>            deleted automatically. Now, any attempt to delete the BGP config of "update-source" containing the<br>            "VE" config will lead to the issue mentioned. | | |

| Defect ID: | DEFECT000635158 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** BFD - BiDirectional Forwarding Detection | |
| **Symptom:** IPv6 BFD values for BGP are not displayed when invoked through Get operation of REST URI. | | |
| **Condition:** Using REST API to get the information. | | |

| Defect ID: | DEFECT000635247 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Low | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 2 Switching | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** VLAN - Virtual LAN | |
| **Symptom:** In rare occasions, ARP may stay as MAC unresolved state although the MAC is learnt. | | |
| **Condition:** The issue can happen after pull/insert optics and HA failover. | | |
| **Workaround:** Clearing the mac should resolve the issue. | | |

| Defect ID: | DEFECT000635381 | |
|---|---|---|
| **Technical Severity:** Medium | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** MCT - Multi-Chassis Trunking |
| **Symptom:** Hardware may drop IP traffic to the next hop for which the MAC is not resolved. | | |
| **Condition:** Under certain scaled configuration conditions, an interface flap could cause an ARP entry with an unresolved MAC. | | |

| Defect ID: | DEFECT000635398 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Security |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** ACLs - Access Control Lists |
| **Symptom:** When the command "show statistics access-list mac <acl_name> {in \| out} is executed, the displayed rules contain "arp-guard" keyword even if not configured by user. | | |
| **Condition:** Create MAC access-list. Store the running configuration to flash using the command "copy running-config flash://<file-name>". Copy the configurations in flash to startup-configuration using the command "copy flash://<file-name> startup-config". Reload the device. | | |

| Defect ID: | DEFECT000635473 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** IP Multicast |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** PIM - Protocol-Independent Multicast |
| **Symptom:** PIM unexpectedly resets in PIM SSM case and when leave is sent | | |
| **Condition:** This will occur only when PIM SSM is configured and occurs when 100 ms Last membership Query is used. | | |

| Defect ID: | DEFECT000635538 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Traffic Management |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** Traffic Queueing and Scheduling |
| **Symptom:** Customers may not get correct drop probability while applying QoS WRED feature into their IP networking setup. | | |
| **Condition:** Customers may not get correct drop probability while applying QoS WRED feature into their IP networking setup. | | |

| Defect ID: | DEFECT000635658 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** IP Multicast |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** IPv4 Multicast Routing |
| **Symptom:** Traffic loss seen in some multicast groups in scaled setup. | | |
| **Condition:** The PIM *G join packet is not getting to PIMD, that's why MGIDs are not programmed for some groups. | | |

| Defect ID: | DEFECT000635711 | |
|---|---|---|
| **Technical Severity:** Medium | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** VRRPv3 - Virtual Router Redundancy Protocol Version 3 |
| **Symptom:** For IPv6 VRRP sessions, debug CLI 'debug vrrp events on' is not able to print any logs. | | |
| **Condition:** Enable debugging command 'debug vrrp events on' | | |

| Defect ID: | DEFECT000635873 | |
|---|---|---|
| Technical Severity: | High | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Layer 2 Switching |
| Reported In Release: SLXOS 17r.1.00 | | Technology: MCT - Multi-Chassis Trunking |
| Symptom: It may take few minutes for traffic to converge after cluster no deploy/deploy. | | |
| Condition: The issue can be seen when a lot of interfaces are configured (including CCEP, CEP and PW interfaces) | | |

| Defect ID: | DEFECT000635885 | |
|---|---|---|
| Technical Severity: | High | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 17r.1.00 | | Technology: OSPF - IPv4 Open Shortest Path First |
| Symptom: Packets may get dropped on MCT link. | | |
| Condition: The MCT Uplink must be always configured as a tagged VE Interface. For L3 MCT, on an untagged ve/router interface, it currently sends with an extra tag and hence will not work. | | |

| Defect ID: | DEFECT000635898 | |
|---|---|---|
| Technical Severity: | Medium | Probability: High |
| Product: Brocade SLX-OS | | Technology Group: IP Multicast |
| Reported In Release: SLXOS 17r.1.00 | | Technology: IGMP - Internet Group Management Protocol |
| Symptom: IGMP joined interface may receive double the amount of traffic and will not observe any loss of traffic. | | |
| Condition: Switch must be in snooping mode. | | |

| Defect ID: | DEFECT000635924 | |
|---|---|---|
| Technical Severity: | High | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 17r.1.00 | | Technology: ARP - Address Resolution Protocol |
| Symptom: Layer 3 traffic forwarding is affected for few Layer 3 interface on enabling RSTP. | | |
| Condition: Enable RSTP with 512 VLAN/VE and 512 BGP sessions. | | |
| Workaround: Enable RSTP before configuring or enabling Layer 3 interfaces. | | |
| Recovery: Clear the ARP associated with the route's nexthop IP address. (or) Clear the mac table associated with the VLAN/VE interface. | | |

| Defect ID: | DEFECT000635972 | |
|---|---|---|
| Technical Severity: | High | Probability: Medium |
| Product: Brocade SLX-OS | | Technology Group: Layer 3 Routing/Network Layer |
| Reported In Release: SLXOS 17r.1.00 | | Technology: OSPFv3 - IPv6 Open Shortest Path First |
| Symptom: After MCT cluster no-deploy and deploy configuration, The DF election on MCT client is out-of-sync and causes traffic drops. | | |
| Condition: Trigger is to do MCT cluster no-deploy and followed by deploy.<br><br>Due BGP AD-routes exchange missing between the MCT peers, the MCT clients DF election was not correct. | | |
| Workaround: Flap the MCT client interface. | | |

| Defect ID: | DEFECT000636031 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** MPLS | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** IP over MPLS | |
| **Symptom:** RSVP signaling for adaptive new instance of an LSP completes but the system does not mark the new-instance as UP because of internal resource exhaustion. | | |
| **Condition:** This issue may be seen in very highly scaled setup or a setup where statistics collection is enabled on large number of entities and a large number of LSPs undergo adaptive re-signaling at the same time. | | |

| Defect ID: | DEFECT000636057 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** IP Multicast | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** IPv4 Multicast Routing | |
| **Symptom:** Unexpected reset of mcastssd daemon occasionally on some devices. Does not happen consistently: a rare condition. | | |
| **Condition:** Need to have a lot of RP-sets getting synced to line card. | | |

| Defect ID: | DEFECT000636137 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Security | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** ACLs - Access Control Lists | |
| **Symptom:** IPv6 traffic received on an interface with TCP / UDP header doesn't get denied based on the configured rule. | | |
| **Condition:** IPv6 access-list created with deny rule having protocol field configured as TCP / UDP. This access-list is bound on interface for ingress traffic filtering. This happens when the received IPv6 traffic contains one or more IPv6 extension headers followed by TCP / UDP header. | | |

| Defect ID: | DEFECT000636161 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** MPLS | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** LDP - Label Distribution Protocol | |
| **Symptom:** Customer may see an unplanned reload of the Standby MP with MPLS process exception | | |
| **Condition:** This issue can occur in dual MP configuration on modular SLX device | | |
| **Recovery:** The MP will reload itself and clear the issue itself. There will not be any loss of traffic or functionality as the reload will occur on standby MP | | |

| Defect ID: | DEFECT000636300 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** BGP4+ - IPv6 Border Gateway Protocol | |
| **Symptom:** update-source lo config is not deleted from router bgp after deleting lo and not able to remove it afterwards | | |
| **Condition:** Under BGP, a neighbor is configured with "update-source" config with a "loopback" interface. Now the "loopback" interface is deleted, whereas, the associated config under BGP is not deleted. Any attempt to delete the "update-source" config for the non-existing "loopback" interface will land in the issue. | | |

| Defect ID: | DEFECT000636303 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** BFD - BiDirectional Forwarding Detection | |
| **Symptom:** On deletion on Loopback interface, BFD session on Loopback interface is deleted immediately, while the corresponding BGP session is deleted only after "Hold timer expire" | | |
| **Condition:** Deletion of Loopback interface on which BGP and BFD session are established. | | |

| Defect ID: | DEFECT000636323 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Management | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** Software Installation & Upgrade | |
| **Symptom:** Sometime this debug stack dump will be visible on console during SLXOS VM booting stage: lock held by mcagtd. These messages are harmless. | | |
| **Condition:** This is a timing related issue that occurs in rare conditions during boot up. | | |
| **Recovery:** No | | |

| Defect ID: | DEFECT000636357 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** VRRPv3 - Virtual Router Redundancy Protocol Version 3 | |
| **Symptom:** If invalid IP address is entered via configuration CLI "track network 0.0.0.0/0", for a VRRPE group, it may cause Dcmd daemon to reset. | | |
| **Condition:** Issue will be seen only with invalid IP address 0.0.0.0/0. | | |
| **Recovery:** No recovery | | |

| Defect ID: | DEFECT000636391 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** IP Addressing | |
| **Symptom:** After MCT cluster no-deploy and deploy configuration, The DF election on MCT client is out-of-sync and causes traffic drops. | | |
| **Condition:** Trigger is to do MCT cluster no-deploy and followed by deploy. Due to BGP AD-routes exchange missing between the MCT peers, the MCT clients DF election was not correct. | | |

| Defect ID: | DEFECT000636543 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Traffic Management | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** Rate Limiting and Shaping | |
| **Symptom:** When system policymaps and classmaps within a policymap are configured to the maximum allowed, some system policymaps configs are rejected. Workaround is to not config to full the maximum. | | |
| **Condition:** Config issue seen with full scaling | | |

| Defect ID: | DEFECT000636615 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Monitoring |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** sFlow |
| **Symptom:** Sometime this debug stack dump will be visible on console during SLXOS VM booting stage: "lock held by buffmgr". These messages are harmless. | | |
| **Condition:** These are timing related messages and happen on rare occasions at boot up. | | |
| **Recovery:** No | | |

| Defect ID: | DEFECT000636674 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** MCT - Multi-Chassis Trunking |
| **Symptom:** After HA-failover in stress condition, user experiences some traffic issues due to some stale LIF configuration not cleaned-up properly during HA-failover. | | |
| **Condition:** The trigger for this issue is as below<br>1. Large scale setup with around thousands of LIFs & 100K Macs.<br>2. Do MCT cluster no-deploy.<br>3. Before actual completion of step (2), initiate HA-failover.<br>4. On the newly active MM, trigger MCT cluster deploy. | | |

| Defect ID: | DEFECT000636683 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** OSPF - IPv4 Open Shortest Path First |
| **Symptom:** After BGP daemon restarts (either due to manually killing BGP Linux daemon or due to unexpected fault in the daemon ), the existing L3/IP traffic flows over MCT peer-link might be slow due to h/w forwarding getting switched to s/w or slow forwarding. | | |
| **Condition:** After BGP daemon restarts, the BGP daemon process-restart notifications are missing in MCT daemon and hence MCT daemon is out of sync with rest of the system processes and this is causing packets to be switched in the software instead of hardware switching. | | |

| Defect ID: | DEFECT000636697 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Traffic Management |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** Rate Limiting and Shaping |
| **Symptom:** After applying service-policy in ingress/egress direction, number of TCAM entries used will not be incremented for PORT_RL but there will be no impact on functionality. | | |
| **Condition:** Apply the service-policy of default class in ingress/egress direction and check the number of tcam entries used using the cli command to list the hardware profile current usage. | | |

| Defect ID: | DEFECT000636783 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** MCT - Multi-Chassis Trunking |
| **Symptom:** MAC is not resolved in ARP table and CL MACs missing in "show mac-address" command. | | |
| **Condition:** When MCT commands "deploy" is executed immediately after "no deploy" before the MAC address flush is completed in scaled setup with 100k MACs. | | |
| **Recovery:** Delete the affected VLAN and add the same VLAN. | | |

| Defect ID: | DEFECT000636785 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 2 Switching | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** MCT - Multi-Chassis Trunking | |
| **Symptom:** Line card may reload. | | |
| **Condition:** When MM switchover is tried immediately after MCT "deploy" and "no deploy" commands are executed in active controller card in scaled setup with 100k MACs. | | |

| Defect ID: | DEFECT000636837 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** OSPFv3 - IPv6 Open Shortest Path First | |
| **Symptom:** OSPF v3 neighbor state will be in "Exstart" due to MTU mismatch in certain scenario. | | |
| **Condition:** Issue occurs with IPv6 MTU configured. Upon removal of OSPF v3 & MTU configuration and re-enabling OSPF v3 will cause neighbor state to be in "Exstart" | | |

| Defect ID: | DEFECT000636973 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** ARP - Address Resolution Protocol | |
| **Symptom:** User may experience ARP failures in scale scenarios based on user configuration. | | |
| **Condition:** This issue can be observed in ARP scale scenario (more than 74K). | | |

| Defect ID: | DEFECT000636980 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Medium | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 3 Routing/Network Layer | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** OSPFv3 - IPv6 Open Shortest Path First | |
| **Symptom:** SLX-9540 Router reboots sporadically while deleting VRF, with the following message: 2017/03/17-22:39:46, [HASM-1200], 3704, FFDC, WARNING, SLX9540, Detected termination of process Dcmd:3844.^M 2017/03/17-22:39:46, [HASM-1000], 3705,, CRITICAL, SLX9540, Daemon dcm terminated. System initiated reload/failover for recovery. | | |
| **Condition:** While doing configurations in different modules along with creations and deletions of VRF repeatedly. | | |

| Defect ID: | DEFECT000637129 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** Low | |
| **Product:** Brocade SLX-OS | **Technology Group:** Layer 2 Switching | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** MCT - Multi-Chassis Trunking | |
| **Symptom:** There can be traffic drop after uplink port-channel shut/no shut in L2 MCT. This issue is seen very rarely in scaled configuration. | | |
| **Condition:** Uplink port-channel shut/no shut in L2 MCT in scaled configuration. | | |

| Defect ID: | DEFECT000637221 | |
|---|---|---|
| **Technical Severity:** High | **Probability:** High | |
| **Product:** Brocade SLX-OS | **Technology Group:** SDN | |
| **Reported In Release:** SLXOS 17r.1.00 | **Technology:** OpenFlow | |
| **Symptom:** Switch may send extra Barrier Reply on a Barrier Request on some certain conditions. | | |
| **Condition:** This was observed on a scaled/stressed test condition where a controller sends a Flow-Mod message and followed by a Barrier Request. Repeated by the controller multiple times after receiving a Barrier Reply message. Starting at 4,096 flows, switch starts sending extra Barrier Reply intermittently. | | |

| Defect ID: | DEFECT000637226 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** High |
| **Product:** Brocade SLX-OS | | **Technology Group:** Security |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** DoS (Denial of Service) protection |
| **Symptom:** Increased CPU utilization and variation in memory utilization. | | |
| **Condition:** Should not occur under normal maintenance operation; resulted from stress-to-fail testing. | | |

| Defect ID: | DEFECT000637277 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Low |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** ARP - Address Resolution Protocol |
| **Symptom:** Host traffic drop is observed when lot of ARPs (~32k) are learned. | | |
| **Condition:** When there is a burst of ARPs on the same port, host may not be programmed correctly for hardware forwarding. | | |

| Defect ID: | DEFECT000637344 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 3 Routing/Network Layer |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** BGP4 - IPv4 Border Gateway Protocol |
| **Symptom:** BGP routes are not installed if the route and the nexthop of the route belong to same subnet. | | |
| **Condition:** If the BGP route and the nexthop of BGP belong to same subnet then those routes would not be installed in RTM. | | |
| **Workaround:** Modify the nexthop of BGP routes either at the originator, or at the receiver. | | |

| Defect ID: | DEFECT000637361 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Layer 2 Switching |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** MCT - Multi-Chassis Trunking |
| **Symptom:** Some traffic loss might be observed between the MCT peer nodes. | | |
| **Condition:** Issue could happen with scaled scenarios such as 2000 VLANs, 100 K MACs and with 1000 VE interfaces. And in cases which all or most of the MACs need to be re-learned, and synced to MCT peer. Like a case of node reload, or cluster Deploy/No-Deploy, etc. | | |
| **Workaround:** Use of "Clear mac-address-table" on the node where MAC addresses are learned as Local. | | |
| **Recovery:** Use of "Clear mac-address-table" on the node where MAC addresses are learned as Local. | | |

| Defect ID: | DEFECT000637363 | |
|---|---|---|
| **Technical Severity:** High | | **Probability:** Medium |
| **Product:** Brocade SLX-OS | | **Technology Group:** Management |
| **Reported In Release:** SLXOS 17r.1.00 | | **Technology:** Configuration Fundamentals |
| **Symptom:** Chassis FWDL (firmware download) will fail continuously with large startup-config file with the following message. "Firmware install ends. Firmware download timed out.(35)" | | |
| **Condition:** The large config size is in the order of ~4MB. | | |
| **Workaround:** Please save the configuration outside the device, then upgrade with 'default-config' option to firmware download. After the upgrade has completed successfully, re-apply the original configuration. | | |
| **Recovery:** When FWDL times out, the last version is restored. | | |

| Defect ID: DEFECT000637649 | |
|---|---|
| Technical Severity:  High | Probability:  High |
| Product:  Brocade SLX-OS | Technology Group:  MPLS |
| Reported In Release:  SLXOS 17r.1.00 | Technology:   IP over MPLS |
| Symptom:  On performing a downgrade, the system may run into issues if there are any configurations related to features unsupported in MPLS in the downgraded software version. | |
| Condition:  The issue is seen only when there are any MPLS configurations in new (N+1) version of the software and are downgrading to old (N) version of software which doesn't support these configurations. | |
| Workaround:  Delete all unsupported MPLS configurations before performing the downgrade. Or clean the configuration database before downgrading to N version of the SW (configs will not be lost. In the absence of config database, the config will be replayed from config file) | |

| Defect ID: DEFECT000638196 | |
|---|---|
| Technical Severity:  High | Probability:  High |
| Product:  Brocade SLX-OS | Technology Group:  Monitoring |
| Reported In Release:  SLXOS 17r.1.00 | Technology:   Syslog |
| Symptom:  FPGA out of date warning periodically appears on the SLX-9540 console. | |
| Condition:  The issue occurs when FPGA is upgraded by user on SLX-9540. | |
| Workaround:  Login as admin, go into Linux using "start-shell" and then enter "SU". Then issue the following command: "sed -i "s/lc_fpga_p3_170106_ga42_ai92.pof/lc_fpga_p3_170209_ga42_ai92.pof/g" /boot/image/SWBD4000/avalanche_top_latest.README" | |