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

Release Notes v1.0

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Document history

Version	Summary of changes	Publication date
1.0	Initial Release	June 7, 2017

Preface

Contacting Brocade Technical Support

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

Brocade customers

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

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

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

Brocade OEM customers

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

- OEM/solution providers are trained and certified by Brocade to support Brocade® products.
- Brocade provides backline support for issues that cannot be resolved by the OEM/solution provider.
- Brocade Supplemental Support augments your existing OEM support contract, providing direct access to Brocade expertise. For more information, contact Brocade or your OEM.
- For questions regarding service levels and response times, contact your OEM/solution provider.

Related documentation

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

White papers, data sheets, and the most recent versions of Brocade software and hardware manuals are available at www.brocade.com.

Product documentation for all supported releases is available to registered users at MyBrocade. Click the Support tab and select Document Library to access documentation on MyBrocade or www.brocade.com. You can locate documentation by product or by operating system.

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

Document feedback

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

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

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

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

Overview



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.1.00a 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.1.00a

No new behavior changes were introduced in SLX OS 17r.1.00a.

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 3 rd Party VM support

Software Features

New software features introduced in 17r.1.00a

No new software features were introduced in 17r.1.00a.

New software features introduced in 17r.1.00

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 Beacons 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

New CLI commands 17r.1.00a

No new commands were introduced in 17r.1.00a.

CLI commands 17r.1.00

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:

tpvmadm

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.1.00a.tar.gz	SLX-OS 17r.1.00a software
slxos17r.1.00a_all_mibs.tar.gz	SLX-OS 17r.1.00a MIBS
slxos17r.1.00a.md5	SLX-OS 17r.1.00a md5 checksum

Upgrade and downgrade considerations

- Firmware download is supported from earlier SLX releases to this slxos17r.1.00a 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 the following command to upgrade the FPGA image on MM/LC/SFM:

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

```
# sysfpga_upgrade
```

On Standby MM use the 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 the 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 the following step to upgrade it.

2. Execute the 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 the FPGA version again to confirm (see step 1)

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

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Closed with code changes 17r.1.00a

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 6/7/2017 in 17r.1.00a.

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.	
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: DEFECT000636548	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: IPv4 Multicast Routing
Symptom: Multiple control characters entered during the display of output for certain show commands like "show mpls lsp" and "show ip pim mcache vrf abc" may cause the SLX switch to undergo an unexpected reload.	
Condition: When the command output is aborted with Ctrl-C multiple times.	
Workaround: Avoid issuing Ctrl-C during the command output.	

Defect ID: DEFECT000637348	
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: Under rare timing conditions, when more than 1000 OSPF routes are learned, certain prefixes are not being programmed in hardware, impacting traffic for those prefixes.	
Condition: Under rare timing conditions, when network/route changes occur on an SLX device carrying more than 1000 OSPF routes	
Recovery: Clearing the OSPF table reprograms the entries.	

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: "sysFPGA out of date" warning may periodically keep appearing on the SLX9540 console.	
Condition: When the FPGA for the SLX9540 is not updated to the latest release	

Defect ID: DEFECT000639691	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17r.1.01	Technology: OAM - Operations, Admin & Maintenance
Symptom: The Management Module failover may not be successful when the Standby MM encounters a fabric-watch daemon termination.	
Condition: When Standby MM encounters the unexpected daemon termination.	

Defect ID: DEFECT000640500	
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: Under a specific rare condition, when a Management Module failover occurs, the routing protocols may go down & fail to come up.	
Condition: When active MM undergoes an unexpected reload without generating a core dump	
Recovery: Reload of Standby MM and Linecards will recover the routing protocols.	

Defect ID: DEFECT000640797	
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: Under rare conditions, the Active MM may undergo an unexpected reload without generation of core dump.	
Condition: When Host OS unexpectedly loses communication with VM	

Defect ID: DEFECT000641119	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 16r.1.01	Technology: SNMP - Simple Network Management Protocol
Symptom: The 64-bit SNMP HC counters (e.g., ifHCInUcastPkts and ifHCOutUcastPkts) may unexpectedly periodically wrap around at a 32 bit boundary.	
Condition: This is triggered after issuing "clear counters all".	

Defect ID: DEFECT000641244	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: MCT - Multi-Chassis Trunking
Symptom: fwd [Fabric watch Dog] daemon terminate on active MM and MM failed over occur.	
Condition: Memory leak in fwd daemon cause the daemon grow too big and terminate at the end during memory allocation.	
Workaround: Monitoring memory status periodically using "show process memory" CLI can help to perform graceful MM fail over when fwd daemon memory has reached at high stage [~1G].	

Defect ID: DEFECT000642589	
Technical Severity: Critical	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.00	Technology: LAG - Link Aggregation Group
Symptom: A line card encounters a kernel panic due to an Out Of Memory condition and reloads itself.	
Condition: One of the internal files grows too large (greater than 1G in size) and during the processing of that file the Out of Memory condition occurs.	

Defect ID: DEFECT000643134	
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: OSPF/MPLS services are disrupted when LC experience a panic and goes down.	
Condition: When a line card which has the active link of the port-channel experience sudden panics.	

Defect ID: DEFECT000643450	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.00	Technology: IP over MPLS
Symptom: Management modules encountered an unexpected reset.	
Condition: Incorrect handling of SP TLV in the PW label mapping message.	

Defect ID: DEFECT000643531	
Technical Severity: Medium	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.00	Technology: High Availability
Symptom: Management Module (MM1) unexpectedly resets while resetting the OSPF session with a peer.	
Condition: Resetting the OSPF session with a peer	

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Closed with code changes 17r.1.00

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 is 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 \geq 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. 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: <ul style="list-style-type: none"> - MCT Cluster-config has some clients with client-interface configuration - Those client-interfaces are on a LC which is in power-off state. - User is doing “ha failover” [with some LCs in power-off state which has mct-client interfaces]. - 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 17r.1.00

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 interval passed time out.	
Condition: Updates existing value of BGP ADVERTISEMENT INTERVAL for sending "BGP UPDATE" to peer node.	

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: <ol style="list-style-type: none"> 1. Configuring the traffic topology as IPoverMPLS, 2. Configuring sflow on involved interface of SLX9850 platform, 3. Passing IPoverMPLS traffic into the SLX9850 with packet size less than 128 bytes. 4. sflow sampled packet rate are high (> 1 k pps) <p>IPoMPLS sflow packets at high rate 70% of line rate can slow down CPU path.</p>	
Workaround: Any or combination of the followings will reduce the likely hood of LACP flapping: <ol style="list-style-type: none"> 1. Reduce traffic rate. 2. Reduce the configured sflow sampling frequency. 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: mi_xmit_ack_msg: dev_queue_xmit failed: 1 and 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.	

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 1. Shutdown cluster-client-interfaces 2. HA Failover 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 17r.1.00

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. MMVM# trace-l2 vlan 120 2.3.4.5 trace-l2 reply vlan 120 from e1/15, 2.3.4.5, total round trip = 4686 microsec hop input output IP and/or MAC address microsec comment 1 e9/1 e9/5 120.x.x.x xxxx.xxxx.xxxx 3482 STP 2 e15/5 e4/7 3.3.3.3 xxxx.xxxx.xxxx 0 STP 3 e1/61 2.3.4.5 xxxx.xxxx.xxxx 900808 RPVST MMVM#	
Condition: 1)Trace-l2 is performed from the SLX-9850 platform 2) There should be an intermediate hop which is a device that supports trace-l2 that forwards the trace to the connected devices. 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 - 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 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 <pre> BUG: unable to handle kernel NULL pointer dereference at 0000017a [151.728325] IP: [<81032d30>] atomic_inc+0x3/0x8 [151.728325] *pdpt = 000000002469a001 *pde = 0000000000000000 [151.728325] Oops: 0002 [#1] SMP [151.728325] last sysfs file: /sys/devices/system/cpu/online [151.728325] Modules linked in: sysfpga_drv_module ixgbevf wmdumper_module(P) bootflash_drv_module iu_module(P) fss_module(P) linux_kernel_bde(P) trace_module(P) fusion_pci_module syslock_module(P) haml_module(P) linux_user_bde(P) fablog_module(P) mi_module(P) xprt_module isc_module(P) hasm_module(P) fabsys_module(P) hsl_module switch_module(P) tp_module(P) ctm_module(P) vm_hotplug_drv_module ki_module(P) raslog_module(P) chassis_module(P) portlog_module(P) basic_module cee_cp_module(P) fcoe_module(P) fc_module(P) routing_module(P) f8_module(P) [151.728325] [151.728325] Pid: 6865, comm: netstat Taint </pre>	
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: mlag is configured . "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. 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. 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. 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.	
<pre> [82.948531] [acb37ec8] [<810c41bb>] vma_prio_tree_insert+0x1a/0x2c^M [82.949188] [acb37ed8] [<810cfaaa>] __vma_link_file+0x52/0x55^M [82.949795] [acb37ee0] [<810d0043>] vma_link+0x6c/0x9a^M [82.950325] [acb37f00] [<810d12f5>] mmap_region+0x30e/0x42a^M [82.951165] [acb37f54] [<810d16fb>] do_mmap_pgoff+0x2ea/0x30e^M </pre>	
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	
<pre> SLX(conf-ip6acl-ext)# do show running-config ipv6 access-list ipv6 access-list extended 456 seq 30 permit udp any eq ntp any seq 40 permit tcp any eq telnet any seq 50 permit tcp any eq 22 any seq 60 permit ipv6 any any </pre>	

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. BUG: unable to handle kernel NULL pointer dereference at 00000000	
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. <pre>show bgp evpn routes type arp 51.51.51.4 mac 0027.f8ca.b0aa ethernet-tag 0 -----^ syntax error: unknown argument</pre>	
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 BPDU 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: Ospf3 will not form neighbor ship with IPsec authentication in MCT topology	
Condition: Issue arises after configuring IPsec authentication in Ospf3.	

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_ssdd 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. 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. "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 :	
<pre># ip route 0.0.0.0/0 next-hop-vrf mgmt-vrf 10.x.x.x</pre>	
Workaround: Add the default route with different syntax For example	
<pre>vrf mgmt-vrf address-family ipv4 unicast ip route 0.0.0.0/0 10.x.x.x</pre>	

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. 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. Now when the VE interface is deleted, the neighbor "update-source" config done under BGP is not deleted automatically.	
Condition: Under BGP, for a neighbor "update-source" config is done with a VE interface. Now when the VE interface is deleted, the neighbor "update-source" config done under BGP is not deleted automatically. Now, any attempt to delete the BGP config of "update-source" containing the "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. 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 <ol style="list-style-type: none"> 1. Large scale setup with around thousands of LIFs & 100K Macs. 2. Do MCT cluster no-deploy. 3. Before actual completion of step (2), initiate HA-failover. 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)	

