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SLX-OS 17r.1.01a 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	October 16, 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.
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- 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.1.01 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 supporting, VPLS, VLL, L3VPN capability.
- C. L2 Exchange architecture, providing Layer 2 interconnect over MPLS transport over VPLS/VLL pseudo wires.

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
BR-SLX9850- 100GX12CQ-M	BR SLX 9850 12-port 100GbE, 20-port 40GbE, or 80- port 10GbE flex-speed (M) interface module with IPv4/IPv6/MPLS hardware support. Requires QSFP28, QSFP+ optics & 40GbE to 10GbE breakout (10GbE) connectivity. Sup ports 750K MAC,256K IPv4 & 64K IPv6 routes
BR-SLX9850-100GX6CQ-M-UPG	6x100G POD SW license to be used with SLX9850-100Gx12CQ-M 100G blade only

Behavior changes

Behavior changes in release 17r.1.01a

No new behavior changes were introduced in SLX-OS 17r.1.01a.

Behavior changes in release 17r.1.01

The following system behaviors have changed in this release:

- Auto-configuration of “proxy-arp” is removed from the interface config.
- Under cluster config, a new CLI option is added: “`cluster-isolation-loose`”. It forces a node to be in loose mode.
- To enable BGP routes redistribution in non-default-VRF, users need to configure ‘vrf-lite-capability’ under ‘router ospf vrf <vrf-name>’. This was enabled by default in SLXOS17r.1.00.
- There is change in SSH client CLI in this release. This CLI will no longer support 3DES cipher as option:

```
ssh { IP_address | hostname } [ -c | -l | -m | interface {<N>gigabitethernet | management | ve vlan-id } | vrf vrf-name ] }
```
- The CLI syntax for source ip in traceroute command is changed to match the same in ping command. Changed from “`traceroute x.x.x.x src-addr y.y.y.y`” to “`traceroute x.x.x.x source y.y.y.y`”. HTTP[S] TRACE method has been blocked in this release.

Software Features

New software features introduced in 17r.1.01a

The following software features are new in this release:

- Description CLI feature support for Bridge domains.
- Rate limiting (RL) enhancements:
 - Non-desired MAC addresses dropped due to ACL-based Rate Limiting configuration would not be learned in VPLS.
 - Enhancement to enable L2 ACL-based Rate-limiter.
 - Port/ACL RL + Storm Control (BUM RL).
- Connectivity Fault Management (CFM) support over multi-slot LAG. Y.1731 delay measurement and Synthetic loss measurement is supported with multi-slot LAG.
- Firmware download, **fullinstall** command support when upgrading or downgrading device between 32-bit and 64-bit firmware.

New software features introduced in 17r.1.01

The following software features are new in this release:

- BGP-EVPN VxLAN: Support for Layer 2 VPN service using BGP-EVPN RFC 7432 multi-protocol extension to BGP to exchange Layer 2 routes with extensions to RFC 7432 for VxLAN overlays as drafted in “draft-bess-evpn-overlay-04.
- BGP/MPLS IP Virtual Private Networks (VPNs): Support for VPN v4/v6 over MPLS network as per RFC 4364 standards.
- Support of VPLS, VLL end point over MCT pair.
- Y.1731: This feature provides performance monitoring capability for point-to-point links as defined in ITU-T Rec Y.1731 on SLX 9850 and SLX 9540 platform.
- CFM over LAG: Provides the ability to monitor network health using IEEE 802.1ag Connectivity Fault Management (CFM) over LAG links.
- ARP Guard: This feature allows to selective allow ARP packets based on pre-define list of ARP guard IP access list and avoid black holing valid ARP traffic.
- BFD: Bidirectional Forwarding Detection (BFD) is a simple “hello” protocol defined in RFC 5880. BFD is a unified detection mechanism used to rapidly detect link faults and monitor IP connectivity. To improve network performance, device must quickly detect communication failure to switch communication through backup paths as soon as possible.
- Support for IGMP 100ms Last Member Query Interval (LMQI) Support
- MPLS FRR Bypass: MPLS LSP Fast reroute (FRR) is a protection mechanism to provide fast traffic recovery upon link or router failures. FRR LSP is also called as the Protected LSP. FRR protection mechanism is defined in RFC 4090. FRR protection mechanism, tries to sets up detour LSP along every node of the protected LSP such that the detour LSP will carry the traffic whenever there is a failure along the protected LSP’s outgoing interface or whenever there is a failure in the downstream node of the LSP.
- IEEE 802.1ag Long MAID format: This feature implements the long MAID format for CCM protocol as defined in IEEE 802.1ag (CFM) standard and provides interop capability between SLX and NI devices.
- Layer 2 ACL Rate Limiting supporting VPLS & VLL end points
- Ingress VLAN Rate Limiting for VPLS end points
- ARP Guard supporting VPLS/VLL end points
- Multicast over Multi-VRF: Multi VRF support all the L3 IPv4 multicast protocols. Multicast will operate as separate instances per VRF, allowing support for multi-tenant multicast capability.
- VLAN port MAC security – Restrict option
- Completed Network Packet Broker (NPB) offering of 17r.1.00
- Insight Interface Bi-Directional Support
- New 3rd party apps support: ArpSponge and Perfsonar.
- Dockerized containers to run in a TPVM
- Link OAM for VLL/VPLS
- Host Data Collection- this feature allows collection of support save from the host when SLX VM is not accessible

- Customer Environment Cloning for SLX9540- this feature allows user to clone SLX VM instance on a different host machine
- Increase policy-map scaling to 128 per interface

CLI commands

CLI commands 17r.1.01a

New commands

The following commands are new in this release:

- show cfm
- cfm linktrace
- cfm loopback
- ma-name
- mep
- mip-policy
- tlv-type
- description
- mac-address withdrawal

Modified commands

The following commands have been modified for this release:

- police
- bridge-domain
- firmware download

CLI commands 17r.1.01

New commands

The following commands are new in this release:

- bfd
- bfd holdover-interval
- bfd interval

- bfd shutdown
- bridge-domain (EVPN default instance)
- clear bfd neighbors
- clear bgp evpn neighbor
- clear bgp evpn routes
- client-pw
- duplicate-mac-timer (EVPN default instance)
- evpn
- ip ospf bfd
- ipv6 ospf bfd
- isis bfd
- latch-detection
- match bridge-domain
- member bridge-domain
- neighbor bfd
- neighbor enable-peer-as-check
- neighbor encapsulation
- neighbor next-hop-unchanged
- rd (EVPN VLAN/BD)
- rd auto (EVPN default instance)
- retain route-target all
- route-target (EVPN default instance)
- route-target (EVPN VLAN/BD)
- show bfd
- show bfd neighbors
- show bfd neighbors application
- show bfd neighbors details
- show bfd neighbors dest-ip
- show bfd neighbors interface

- show bgp evpn l2route
- show bgp evpn neighbors
- show bgp evpn neighbors advertised-routes
- show bgp neighbors routes
- show bgp evpn routes
- show bgp evpn summary
- show latch-detection
- vlan (EVPN default instance)
- vtep-discovery

Modified commands

The following commands have been modified for this release:

- client-to-client-reflection
- deploy
- esi
- graceful-restart (BGP)
- neighbor activate
- neighbor allowas-in
- neighbor maximum-prefix
- neighbor route-map
- neighbor route-reflector-client
- neighbor send-community
- police cir
- show cluster
- show mac-address-table
- show slots

Deprecated commands

The following commands have been deprecated beginning with this release:

- N/A

RFCs and standards

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

[Brocade SLX 9850 Router Data Sheet](#)

[Brocade SLX 9540 Data Sheet](#)

Hardware support

Supported devices

The following devices are supported in this release:

Supported Hardware	Description
BR-SLX9850-4-BND-AC	Brocade SLX 9850 4-slot chassis with 1 management module, 5 switch fabric modules, 2 3000W AC power supplies, 3 fan modules, and accessory kit. Power cord not included.
BR-SLX9850-4-BND-DC	Brocade SLX 9850 4-slot chassis with 1 management module, 5 switch fabric modules, 2 3000W DC power supplies, 3 fan modules, and accessory kit. Power cord not included.
BR-SLX9850-8-BND-AC	Brocade SLX 9850 8-slot chassis with 1 management module, 5 switch fabric modules, 4 3000W AC power supplies, 3 fan modules, and accessory kit. Power cord not included.
BR-SLX9850-8-BND-DC	Brocade SLX 9850 8-slot chassis with 1 management module, 5 switch fabric modules, 4 3000W DC power supplies, and 3 fan modules, and accessory kit. Power cord not included.
BR-SLX9850-10GX72S-M	Brocade SLX 9850 72-port 10GbE/1GbE (M) interface module with IPv4/IPv6/MPLS hardware support. Requires SFP+ optics for 10GbE connectivity and SFP optics for 1GbE connectivity. Supports 750K MAC, 256K IPv4 routes and 64K IPv6 routes
BR-SLX9850-100GX36CQ-M	BR SLX 9850 36-port 100GbE, 60-port 40GbE, or 240-port 10GbE flex-speed (M) interface module with IPv4/IPv6/MPLS hardware support. Requires QSFP28 optics for 100GbE, QSFP+ optics for 40GbE, and 40GbE to 10GbE breakout for 10GbE connectivity. Supports 750K MAC, 256K IPv4 routes and 64K IPv6 routes
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.
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

Supported Hardware	Description
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 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
40G-QSFP-LR4-INT	4X10G BASELR4 QSFP+ TO 4 SFP+ (MODULE)
40G-QSFP-LR4-INT-8	4X10G BASELR4 QSFP+ TO 4 SFP+ (8- PACK)
100G-QSFP28-CWDM4-2KM	100G BASE 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.mybrocade.com.

Image file name	Description
slxos17r.1.01a.tar.gz	SLX-OS 17r.1.01a software
slxos17r.1.01a_all_mibs.tar.gz	SLX-OS 17r.1.01a MIBS
slxos17r.1.01a.md5	SLX-OS 17r.1.01a md5 checksum

Upgrade and downgrade considerations

- Firmware download is supported from earlier SLX releases to this slxos17r.1.01a release.
- Instruction to check and upgrade FPGAs/CPLDs:

SLX 9850 platform:

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

1. Check the FPGA version.

```
# fpga version
```

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

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

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

```
# sysfpga_upgrade
```

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

```
# /fabos/link_bin/sysfpga_upgrade
```

On Active MM run following command to upgrade LC/SFM

```
# sysfpga_upgrade lc<slot#>
```

```
# sysfpga_upgrade s<slot#>
```

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

SLX 9540 platform:

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

1. Check the FPGA and CPLD version.

```
# sysfpga_upgrade -v
```

```
# cpld_upgrade -v
```

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

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

FPGA upgrade command

```
# sysfpga_upgrade -p
```

CPLD upgrade command

```
# cpld_upgrade -p
```

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

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

Scalability

All scalability limits are subject to change. The limits noted in this section apply to all the platforms listed unless otherwise specified.

Scalability limits	Brocade SLX-OS Series
Load Balance Pseudo Wires	3K (Max value)
Total Pseudo Wires allowed	8K

Limitations and restrictions 17r.1.01a

The existing timestamp on the SLX 9540 device is causing a failure in Y.1731 based on the delay measurement when on one end there is a SLX 9540 device, and on the other end there is a SLX 9540 device, NetIron MLXe or NetIron CER device, or an SLX 9850 device. The same feature is working properly when both end devices are SLX 9850 devices or NetIron MLXe devices.

When the **reload** command is executed on the SLX 9850 platform, an unexpected reload may occur on the standby management module. Use the **reload system** command as a workaround.

BFD: Sessions with less than 200ms timer may flap.

Limitations and restrictions 17r.1.01

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.

- BFD:
 - Sessions with less than 300ms timer may flap in scale conditions.
 - Known issues with BFD when BFD is configured over multi-slot LAG, or multi-hop session over ECMP paths.
- L3VPN: Known issues with Peer-group, RR-group and Prefix-list ORF.
- FRR facility backup:

- VPLS/VLL Bypass traffic will not work when router/untagged VE interfaces configured as MPLS uplink ports.
- MCT L3 cases will not work when ICL interface configured as router/untagged VE.

It is required for all MPLS uplinks to be tagged interfaces to use FRR bypass for VLL/VPLS/L3VPN applications.

- EVPN VXLAN VTEP
 - Feature is supported with limited scale.

Closed with code changes 17r.1.01a

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 10/11/2017 in 17r.1.01a.

Defect ID: DEFECT000640625	
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: Packets matching Deny rules in L2 ACL applied as RL are not policed and MAC learning happens for those traffic.	
Condition: L2 ACL containing deny rules and applied as RL.	
Workaround: Configure MAC ACL in the same interface where RL is applied. Packets will get dropped and mac learning will not happen for the packets matching deny rules.	
Recovery: Configure MAC ACL in the same interface where RL is applied. Packets will get dropped and mac learning will not happen for the packets matching deny rules.	

Defect ID: DEFECT000642641	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: MBGP - Multiprotocol Border Gateway Protocol
Symptom: VPNV4 ORF receive capability is not disabled on removing the config.	
Condition: Enable ORF prefix list capability and then try to disable it.	
Recovery: Configure "no neighbor x.x.x.x capability orp prefix-list send " and "no neighbor x.x.x.x capability orf prefix-list receive" separately.	

Defect ID: DEFECT000642685	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: MBGP - Multiprotocol Border Gateway Protocol
Symptom: Extended extcommunity-list is not working for RR group.	
Condition: Configuring Extended extcommunity-list for RR group.	
Recovery: Avoid using Extended extcommunity-list for RR group.	

Defect ID: DEFECT000643498	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: BFD - BiDirectional Forwarding Detection
Symptom: When BFD session is over multi-slot LAG, powering off the LC currently being used by BFD may cause the session to flap. This happens to sessions that have sub-second detection times.	
Condition: This issue is due to delay in propagation of slot off event.	

Defect ID: DEFECT000644172	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: CLI - Command Line Interface
Symptom: Unable to configure host-name and observe "Error: Invalid input - new name contains invalid characters or begins with a digit, command failed" error on console.	
Condition: Configuration of switch-attributes host-name cause the issue when we use special character like dot "." in host-name.	
Workaround: Please don't use any special character in host-name.	

Defect ID: DEFECT000644360	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.2.00	Technology: VLAN - Virtual LAN
Symptom: Unresolved MAC in ARP table even though MAC has been resolved as per MAC table.	
Condition: HA failover.	
Recovery: Clear MAC.	

Defect ID: DEFECT000645839	
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: With SLX as VC peer, the LDP sessions may flap, thereby causing VC peers to flap.	
Condition: SLX devices are sending out LDP Keep Alive packets with dscp value 0.	

Defect ID: DEFECT000646055	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: VLAN - Virtual LAN
Symptom: LoadBalance Pseudowire scale limit is 1k So error message on console will be printed if user tries to configure more than 1000.	
Condition: Load Balance Pseudowire scale number was 1000 only.	

Defect ID: DEFECT000647091	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: High Availability
Symptom: Applying "no line card <num>" command without any module present in the slot or "power-off linecard" causes the console/telnet session to hang.	
Condition: Execution of 'no linecard <num>' CLI command after "power-off linecard" command.	
Workaround: Avoid using 'no linecard <num>' command after powering-off the linecard.	
Recovery: Reboot through root prompt and powering on the line card.	

Defect ID: DEFECT000647300	
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: The reply for the snmp query sent to the chassis virtual IP of the switch, has the source IP as MM IP.	
Condition: SNMP request is sent with target address as chassis virtual-ip of SLX switch.	

Defect ID: DEFECT000647400	
Technical Severity: Medium	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: VLAN - Virtual LAN
Symptom: The dual rate 10G LR optic is not working when the interface is configured as 1G.	
Condition: Dual rate LR optic when the interface is configured as 1G.	

Defect ID: DEFECT000647448	
Technical Severity: Medium	Probability: Medium
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: CLI accepts Access list name, where as it expects the prefix-list name. Hence it lead to an issue where SSM-MAP was not bound certain IP rules.	
Condition: Issue is seen when Access list is provide in the ssm-map command of IGMP. It actually needs prefix-list name, to apply rules to SSM-MAP	
Workaround: Please undo CLI configuration and use Prefix-list name to fix the issue.	

Defect ID: DEFECT000647525	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.00	Technology: IP Addressing
Symptom: In the events of congestion in the network, one or more ldp hello packetes may drop and hence may cause LDP session flaps.	
Condition: MPLS LDP hellos are incorrectly sent with the dscp value of 0.	

Defect ID: DEFECT000648492	
Technical Severity: Low	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: High Availability
Symptom: System will hit unexpected reload due to NSM daemon termination.	
Condition: When standby MM become active then System will hit unexpected reload due to NSM daemon termination.	

Defect ID: DEFECT000649907	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: LAG - Link Aggregation Group
Symptom: Load balancing on PE towards CE will not happen in SLX 9540 platform for VPLS Network.	
Condition: LAG end point hashing towards CE in VPLS network.	

Defect ID: DEFECT000650555	
Technical Severity: Critical	Probability: Medium
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.00	Technology: MPLS Traffic Engineering
Symptom: MPLS daemon may terminate without generating core dump with "late cleanup" appearing on the console.	
Condition: When ldp session bounces repeatedly.	

Defect ID: DEFECT000650654	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: SDN
Reported In Release: SLXOS 17r.1.00	Technology: OpenFlow
Symptom: SDN controller flapping and error message indicating flow instructions are not supported. The DPID exposed to the SDN controller by the SLX switch was same for some of the switches.	
Condition: When multiple SLX switches connect to the same controller.	

Defect ID: DEFECT000650925	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: MPLS Traffic Engineering
Symptom: Reachability issues through SLX.	
Condition: The issue can be seen after HA failover. Incorrect handling of memory allocation and free causing SW and HW out of sync.	
Recovery: Flap ingress and egress Ve interfaces.	

Defect ID: DEFECT000650977	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.02	Technology: IPv6 Addressing
Symptom: A server or network device that is not in the IPv6 Management Interface LAN is not be able to communicate with the switch using its IPv6 address. ipv6 gw ip lost after shut/no shut.	
Condition: A "shutdown/no shutdown" operation was performed on the Management Interface.	
Recovery: The IPv6 address of the Management Interface is deleted and then reconfigured.	

Defect ID: DEFECT000651062	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: IPv6 Addressing
Symptom: 'Show interface management' displays garbled IPv6 address instead of configured address.	
Condition: Execution of 'show interface management'.	

Defect ID: DEFECT000651445	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: IP Addressing
Symptom: Reachability issues through SLX.	
Condition: The issue can be seen after hot insert of linecard or power off/on of linecard.	

Defect ID: DEFECT000651447	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: IP Addressing
Symptom: IP route gets deleted from routing table but the route does exist in the isis database and doesn't get updated.	
Condition: Execution of 'clear ip route' CLI.	
Workaround: Avoid using 'clear ip route' for specific prefix.	
Recovery: Execute 'clear ip route all' CLI.	

Defect ID: DEFECT000652028	
Technical Severity: Medium	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: ARP - Address Resolution Protocol
Symptom: Unresolved MAC in ARP table even though MAC has been resolved as per MAC table.	
Condition: HA failover right after LC power cycling.	
Workaround: Power-on/power-cycle LC to ensure it is in upstate before performing HA failover.	
Recovery: Flap ingress / egress VE's to recover from L3 forwarding issue.	

Closed with code changes 17r.1.01

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 6/15/2017 in 17r.1.01.

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 might occur	
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: 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: 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 CSMH command "clear mac-address-table dynamic cluster-client-remote" to flush the state entries.	

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: 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: 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: 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: DEFECT000625644	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 16r.1.01	Technology: Software Installation & Upgrade
<p>Symptom: Kernel panic with the below stack trace during a VM reload after the firmware download process</p> <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) xpirt_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>	
<p>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 firmwaredownload and VM reload process, no functional impact is observed</p>	

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
<p>Symptom: LACP daemon terminates, when "show port-channel" command is run.</p>	
<p>Condition: Issue is observed when: mlag is configured . "show port-channel" CLI is executed, before cluster is deployed.</p>	
<p>Workaround: Configure mlag after cluster is deployed.</p>	
<p>Recovery: Delete the mlag and reconfigure again after cluster is deployed.</p>	

Defect ID: DEFECT000629990	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.00	Technology: VXLAN - Virtual Extensible LAN
<p>Symptom: Packet drops can be observed sometimes for the VXLAN tunnel terminated traffic received on ports connected to core 1 of the Packet processor.</p>	
<p>Condition: Packet drops can be observed sometimes for the VXLAN tunnel terminated traffic received on ports connected to core 1 of the Packet processor</p>	

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: 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: 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 0000000	
Condition: When system is manually reloaded using the "reload" cli, this error kernel panic might occur due to rare timing scenarios in accessing files in the proc file system. This causes SLXOS VM to reload. Since this occurs during reload operation, there is no functional impact.	

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

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. show bgp evpn routes type arp 51.51.51.4 mac 0027.f8ca.b0aa ethernet-tag 0 -----^ syntax error: unknown argument	
Condition: When a user wants to check a specific EVPN mac routes and want to filter the routes with that specific mac.	
Workaround: A user can get the list of all the EVPN mac routes and filter it manually.	

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

Defect ID: 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: 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: 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: 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.	
Workaround: This issue has been fixed in SLXOS 17r.1.01	

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.	
Workaround: This issue has been fixed in SLXOS 17r.1.01	

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.	
Workaround: This issue has been fixed in SLXOS 17r.1.01	

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.	
Workaround: This issue has been fixed in SLXOS 17r.1.01	

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: This issue has been fixed in SLXOS 17r.1.01	
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.	
Workaround: This issue has been fixed in SLXOS 17r.1.01	

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: 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.	
Workaround: This issue has been fixed in SLXOS 17r.1.01	

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	
Workaround: This issue has been fixed in SLXOS 17r.1.01	

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.	
Workaround: This issue has been fixed in SLXOS 17r.1.01	

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. This issue has been fixed in SLXOS 17r.1.01	
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: This issue has been fixed in SLXOS 17r.1.01	

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: 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: 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: DEFECT000634561	
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: Mac access-list applied on a port channel with explicit deny configured causes the port-channel to stay up after flapping for some time, which is supposed to be flapping continuously.	
Condition: When Mac access-list with explicit deny is configured on a port channel.	

Defect ID: DEFECT000634803	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Security
Reported In Release: SLXOS 16r.1.01	Technology: MAC Port-based Authentication
Symptom: Port security configuration will not work on breakout port	
Condition: Port Mac security will not work on breakout port	

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

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: 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: 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: 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: 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.	
Workaround: This issue has been fixed in SLXOS 17r.1.01	

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: 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: 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.	
Workaround: This issue has been fixed in SLXOS 17r.1.01	
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.	
Workaround: This issue has been fixed in SLXOS 17r.1.01	
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.	
Workaround: This issue has been fixed in SLXOS 17r.1.01	

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: 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: 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: 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: DEFECT000637027	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: CLI - Command Line Interface
Symptom: System may not get desired CPU qos shaper as they expected after system reloaded	
Condition: System reload causes loss of CPU qos shaper config.	
Workaround: Reapply CPU qos shaper config after system reload.	

Defect ID: DEFECT000637032	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: Configuration Fundamentals
Symptom: QoS CPU burst configuration for CPU groups does not take effect.	
Condition: Configuring QoS CPU burst values for CPU groups does not take effect.	
Workaround: Work around not available.	

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: 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: 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: 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: DEFECT000637545	
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: Over the period of time BFD memory consumption will increase and result in BFP daemon termination when memory allocated to BFD daemon is exhausted.	
Condition: The issue is seen when customer has BFD deployments. When BFD session is created, there is a memory leak on sending BFD packet on LC. This will lead to exhaustion of memory allocated to BFD process over period of time, in turn causing bfd process termination. This issue is fixed in 17r.1.01 release.	

Defect ID: DEFECT000637646	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.00	Technology: IPv6 over MPLS
Symptom: Management modules encountered unexpected reset	
Condition: When High Availability failover is performed on Dual Management module chassis during route changes occurring in the network then the Management module may undergo unexpected reset	

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

Defect ID: DEFECT000637778	
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: MCT clients with port-channel as client-interfaces are not shown in 'show cluster' output after downgrading from SLXOS 17r.1.00 to SLXOS 17r.0.00	
Condition: Downgrade from SLXOS 17r.1.00 to SLXOS 17r.0.00 with MCT port-channel client-interfaces configured.	
Recovery: Remove MCT client configuration with port-channel as client-interface and reconfigure.	

Defect ID: DEFECT000637781	
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: This is cosmetic issue of displaying error when class-map configuration is attached to more than one policy map.	
Condition: Having same class-map for more than one policy map is not supported though it does not display error in this release.	

Defect ID: DEFECT000637970	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: CLI - Command Line Interface
Symptom: Customer will not be able to delete a partial QoS CPU configuration leftover from a previous QoS CPU configuration deletion.	
Condition: Deleting a QoS CPU configuration leaves behind a partial QoS CPU configuration that has no functional effect.	
Workaround: Upload the configuration file, edit and download to cleanup	

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: DEFECT000638940	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Traffic Management
Reported In Release: SLXOS 17r.1.01	Technology: Rate Limiting and Shaping
Symptom: User may encounter unexpected failure by configuring QoS CPU port shaper feature.	
Condition: Setting QoS CPU port shaper burst size value to 32KB or above causes QoS CPU port shaper configuration failure.	
Workaround: Set QoS CPU port shaper burst size value below 32KB.	

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 "hafailover" command is run, and while the standby MM is taking over as the active MM. This issue is fixed in SLXOS 17r.1.01 release.	

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: DEFECT000641122	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Network Automation and Orchestration
Reported In Release: SLXOS 17r.1.00	Technology: YANG
Symptom: Brocade specific yang files are missing from the yang.tar.gz file included with the build	
Condition: Brocade specific yang files are missing from the yang.tar.gz file included with the build	

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: DEFECT000641757	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.00	Technology: Software Installation & Upgrade
Symptom: Linux stack trace is visible on console after power-on.	
Condition: Linux stack trace is visible on console after power-on. These are not harmful messages and can be ignored. Fixed in 17r.1.01.	

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	

Closed without code changes

This section lists software defects with Critical, High, and Medium Technical Severity closed without a code change as of 6/13/2017 in 17r.1.01.

Defect ID: DEFECT000601668	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: 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: DEFECT000625364	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: 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: DEFECT000626443	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.1.01	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: DEFECT000628494	Technical Severity: High
Reason Code: Not Reproducible	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: DEFECT000629956	Technical Severity: High
Reason Code: Will Not Fix	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: DEFECT000630356	Technical Severity: High
Reason Code: Not Reproducible	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: DEFECT000632383	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 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: DEFECT000632586	Technical Severity: High
Reason Code: Not Reproducible	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: DEFECT000632830	Technical Severity: High
Reason Code: Feature/Function Not Supported	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: DEFECT000633490	Technical Severity: High
Reason Code: Feature/Function Not Supported	Probability: Low
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: DEFECT000633933	Technical Severity: High
Reason Code: Design Limitation	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: DEFECT000634413	Technical Severity: High
Reason Code: Not Reproducible	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: DEFECT000634553	Technical Severity: High
Reason Code: Not Reproducible	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: DEFECT000635381	Technical Severity: Medium
Reason Code: Not Reproducible	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: DEFECT000635711	Technical Severity: Medium
Reason Code: Not Reproducible	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: DEFECT000636057	Technical Severity: High
Reason Code: Not Reproducible	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: DEFECT000636697	Technical Severity: High
Reason Code: Will Not Fix	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: DEFECT000636980	Technical Severity: High
Reason Code: Not Reproducible	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: DEFECT000637277	Technical Severity: High
Reason Code: Not Reproducible	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: DEFECT000637612	Technical Severity: High
Reason Code: Not Reproducible	Probability: Low
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17r.1.00	Technology: RMON - Remote Network Monitoring
Symptom: l2agt process might terminate after HA failover with RMON config, and the line card will reload. The issue is not easily reproducible.	
Condition: l2agt process might terminate after HA failover with RMON config. The issue is not easily reproducible.	

Defect ID: DEFECT000637648	Technical Severity: High
Reason Code: Not Reproducible	Probability: Low
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.00	Technology: Software Installation & Upgrade
Symptom: When SLXOS is downgraded from 17r.1.0 to 16r.1.01, following messages can occur: Waiting for pending actions to exit. Waiting for pending actions to exit. Also, if tftp server is used, Firmware download can take a long time depending on the speed of tftp server.	
Condition: SLXOS image downgrade from version 17r.1.00 to 16r.1.01 using tftp option.	
Workaround: No workaround	
Recovery: Use Firmware download scp option.	

Defect ID: DEFECT000639399	Technical Severity: High
Reason Code: Design Limitation	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.00	Technology: Licensing
Symptom: Avalanche Device removes Advance license EULA from device without any error, while TPVM Advance Feature is already installed. Nevertheless, TPVM is not allowed to start if EULA is missing or has been removed. In that case, this is a minor issue.	
Condition: EULA should not be declined if TPVM has been installed.	

Known issues

This section lists open software defects with Critical, High, and Medium Technical Severity as of 6/13/2017 in 17r.1.01.

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 a 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. <pre>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#</pre>	
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 linecards.	

Defect ID: DEFECT000599901	
Technical Severity: Medium	Probability: Low
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: DEFECT000600383	
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+ - 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: DEFECT000607393	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 16r.1.00	Technology: PIM - Protocol-Independent Multicast
Symptom: customer may see wrong precedence order in config irrespective of whatever configured sequence.	
Condition: This specific config command needs to be changed to take priority along with precedence order. Right now whatever the configured precedence it is not communicated to back end in that order.	

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: 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: 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: DEFECT000622070	
Technical Severity: High	Probability: Low
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: 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: DEFECT000629326	
Technical Severity: High	Probability: Low
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: DEFECT000630152	
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+ - 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: 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 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	

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: Low
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: DEFECT000631504	
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+ - 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: DEFECT000631831	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: With RP unreachable some S G entries may continue to exist. Clear of these entries will not take place.	
Condition: Will happen with scaled number of mcache entries.	
Workaround: clear ip pim mc vrf <vriid> will clear these stale entries.	

Defect ID: DEFECT000632152	
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: If mac withdrawal is enabled on a bridge domain, few mac may not get withdrawn from the remote vpls peer when local macs are flushed.	
Condition: In case when mac are present on many bridge domains, some macs on some bridge domains may not be withdrawn from the remote peer.	
Workaround: The macs can be deleted by clearing the mac manually on the remote vpls peer.	

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: DEFECT000633021	
Technical Severity: Medium	Probability: Low
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: DEFECT000633316	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: Few mcache entries may be seen in PIM. There is no impact to traffic.	
Condition: In a linear kind of topology where the RP is residing away from the source and further away from receiver.	
Workaround: RP should be between source and receiver.	
Recovery: Clear the mcache using clear command.	

Defect ID: DEFECT000633815	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: BGP4 - IPv4 Border Gateway Protocol
Symptom: L3VPN packets are not forwarded from ingress PE router.	
Condition: Traffic over L3VPN with IP payload length greater than 1470 bytes.	
Workaround: Limit IP Payload length to less than 1470 bytes.	

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: 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: DEFECT000634493	
Technical Severity: Medium	Probability: Low
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: DEFECT000634601	
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: 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.	
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: Medium	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 than 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: DEFECT000634973	
Technical Severity: Medium	Probability: Low
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: DEFECT000634994	
Technical Severity: High	Probability: Medium
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: 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: 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: 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: DEFECT000636414	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: BGP/MPLS VPN
Symptom: L3VPN lag load balancing is not happening	
Condition: LAG load balancing is not happening in MPLS termination node, node which terminates MPLS header and routes on IP header	

Defect ID: DEFECT000636511	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: In scaled setup, few multicast stream can see traffic loss when user flap interface associated with the streams.	
Condition: Issue happens when user remove and add interface configuration within a very short period on scaled setup.	
Recovery: User has to clear affected entries by using "clear ip pim mcache <source> <group> vrf <vrf-name>"	

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 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: DEFECT000636755	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: IPv4 Multicast Routing
Symptom: Traffic outage is observed for some stream.	
Condition: Execution of "ha failover" command.	

Defect ID: DEFECT000636756	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: BGP4 - IPv4 Border Gateway Protocol
Symptom: After clear ip bgp neighbor all command is executed, BGP routing table will be empty until user executes the same command after some time.	
Condition: When Route-maps, Prefix-list or other policies are changed, if user executes clear command before the filter update delay is expired (default 10s), all routes are cleared and not updated until the filter change update delay is expired.	
Workaround: Use clear ip bgp neighbor all command one more time after the filter change notification delay is complete. The default value for filter change update delay is 10 seconds.	
Recovery: Use clear ip bgp neighbor all command one more time after the filter change notification delay is complete. The default value for filter change update delay is 10 seconds.	

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: DEFECT000636947	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: Layer 3 Multicast Traffic is not sent to some receivers after HA Fail over.(PIM configuration)	
Condition: Perform HA failover in Duel chassis system.	
Workaround: Stop the traffic before failover. After failover is complete, restart the multicast traffic.	
Recovery: CLI command: "clear the pim mcache"	

Defect ID: DEFECT000637030	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: VXLAN - Virtual Extensible LAN
Symptom: The hashing will not work on the inner L4 and inner IPv6 SPA/DPA for the Vxlan Encapsulated packets.	
Condition: BRCM does not support the inner L4 fields and inner IPv6 SPA/DPA for hashing. Hence, this cannot be supported	

Defect ID: DEFECT000637167	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: MPLS VPLS - Virtual Private LAN Services
Symptom: In scaled config with more Bridge domains(2k) configured and more MAC entries (240k MACs), with bidirectional traffic running between client and remote peer, when mac is cleared and relearned traffic is flooded by non-DF for some BDs node until mac learning is done. Traffic flooding is expected to be done by only DF node. Issue doesn't happen always	
Condition: Scaled bridge domain(> 2k) and scaled mac entries (> 240k), issue is transit where flooding is done for some bd by non df also when mac is getting relearned after clear of the macs. Issue doesn't happen easily.	

Defect ID: DEFECT000637174	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: MPLS VPLS - Virtual Private LAN Services
Symptom: In a scaled configuration (more Bridge domains) and with bidirectional traffic running between remote peer and client end, when client interface port-channel is disabled and enabled, there is a momentary traffic leak from one BD to another BD. Issue recovers by itself	
Condition: Issue happens in scaled config and also issue happens when there are multiple client interface connections Issue doesn't happen easily. Issue is momentary and it recovers itself.	
Recovery: issue is transient and it recovers itself	

Defect ID: DEFECT000637221	
Technical Severity: High	Probability: Low
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: DEFECT000637368	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: Software Installation & Upgrade
Symptom: Dcmd core dump but switch still comes up fine after reboot.	
Condition: This failure during switch reload	

Defect ID: DEFECT000637399	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: Potentially causing PIM neighborship flap on other interfaces.	
Condition: a. System has scaled up PIM routes. b. Interface disable and enable	
Recovery: Issue will be automatically recovered after some time.	

Defect ID: DEFECT000637458	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: IPv4 Multicast Routing
Symptom: Multicast entries will be present in system for some time when RP is unreachable and eventually entries will be deleted based on timer expiry, this will not cause any functionality issue.	
Condition: Multicast entries will be present in system when RP is unreachable instead of deleting entries immediately.	
Recovery: Recovery is to clean multicast entries present in system by issuing "clear ip pim mcache" command	

Defect ID: DEFECT000637652	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: SDN
Reported In Release: SLXOS 17r.1.01	Technology: OpenFlow
Symptom: Due to hardware limitations, logical interface statistics can't be dumped from OpenFlow controller. Usability issue no functional impact.	
Condition: Due to hw limitations logical interface statistics can't be dumped from OpenFlow controller. Usability issue no functional impact.	

Defect ID: DEFECT000637991	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Security
Reported In Release: SLXOS 17r.1.01	Technology: DoS (Denial of Service) protection
Symptom: Any fragmentation based attack can be performed	
Condition: This issue can be seen only if ICMP Packet Too Big (PTB) messages are received with MTU < 1280 for the path. If PTB with MTU < 1280 is received, atomic fragment will be generated. IPv6 atomic fragments can be used to trigger the use of fragmentation in arbitrary flow.	

Defect ID: DEFECT000638138	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: MPLS VPLS - Virtual Private LAN Services
<p>Symptom: When BGP neighbor is cleared the EVPN BGP session goes down, the isolation logic will be used for controlling the client interface state. If there is an explicit isolation-strict configured then the node will bring down the client-interfaces and VPLS PW's towards the remote PE's. If there is no explicit strict configured then default isolation logic will be run and one of the node will be elected to run in strict mode. The node which got elected to run in Strict mode will disable the client interfaces and PW's and the flap is expected on node which got elected as strict. Higher peer address would be strict mode.</p> <p>Issue scenario, flap happens on both strict and loose mode, that is what observed.</p>	
<p>Condition: clear bgp neighbor between mct peer causes remote PW sessions to flap on both mct peer nodes, but it is expected to flap only on the loose mode end</p>	

Defect ID: DEFECT000638200	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: OSPF - IPv4 Open Shortest Path First
<p>Symptom: "MCT Cluster peer address is cannot be nexthop IP address. It is required to be the peer router ID if configured or peer loopback IP address".</p> <p>The goal is to have an unchanged router ID with an explicit configuration or using loopback which is also expected not to be removed.</p>	
<p>Condition: This issue will be seen if the MCT Cluster peer address is not matching with the BGP router-id.</p>	

Defect ID: DEFECT000638214	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: IPv4 Multicast Routing
<p>Symptom: In scaled setup, few multicast stream can see traffic loss when user flap interface associated with the streams.</p>	
<p>Condition: Issue happens when user remove and add interface configuration within a very short period on scaled setup.</p>	
<p>Recovery: Recovery is to clear affected entries by using "clear ip pim mcache <source> <group> vrf <vrf-name>"</p>	

Defect ID: DEFECT000638267	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
<p>Symptom: Some Multicast Receiver ports may not recover the multicast traffic</p>	
<p>Condition: A. Static IGMP multicast entries are configured. b. In a multi-linecard Chassis, if all line cards are rebooted simultaneously, multicast traffic does not recover on all receiver ports.</p>	
<p>Workaround: In a multi-line card chassis, reboot only one line card at a time.</p>	
<p>Recovery: CLI command: "clear the pim mcache"</p>	

Defect ID: DEFECT000638320	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: Traffic is not be software forwarded for some time after configuration of SPT value. In testing the traffic loss was observed for a minute	
Condition: PIM Configuration: Traffic is hit for a 1 minute when Shortest past threshold(SPT) value is set to a finite value through command, other than 1 or infinity	
Workaround: Do not configure PIM spt threshold (use the default value only)	
Recovery: undo the spt threshold configuration	

Defect ID: DEFECT000638543	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.00	Technology: Software Installation & Upgrade
Symptom: SLX9850 MM's may go through ungraceful failover if the FPGA version is not up to date.	
Condition: System FPGA is not upgraded OR if upgrade but system is not reloaded.	

Defect ID: DEFECT000638567	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: MPLS VPLS - Virtual Private LAN Services
Symptom: Dynamic mac addresses are learnt as non-MCT mac addresses instead of MCT capable mac addresses;	
Condition: In rare cases sometimes MAC manager is not up to date with PW status (MCT or non-MCT) for some Bridge domains; due to which the mac addresses are learnt as regular dynamic mac addresses instead of MCT capable mac addresses.	
Workaround: Toggle the BD MCT membership by deleting and adding the BD in MCT.	
Recovery: Toggle the BD MCT membership by deleting and adding the BD in MCT.	

Defect ID: DEFECT000638794	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: IPv4 Multicast Routing
Symptom: PIM daemon terminates when user trying to delete all PIM configured VRF's in one shot and trying to execute PIM show commands at the same time.	
Condition: Resulted from Stress-to-fail testing designed to push the limits of the switch and fabric to point of failure by removing all PIM configured VRF's in one shot and trying to execute PIM show commands at the same time.	
Workaround: Workaround is to remove PIM configured VRF's one by one and by not running show commands at the same time.	

Defect ID: DEFECT000638795	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: MCT - Multi-Chassis Trunking
Symptom: In MCT network with multiple client, all cluster client flaps in case of scale mac numbers.	
Condition: With scale of 100,000 mac, issue 'clear mac-address-table cluester' and clear arp" commands. Also make client down and up. It will make other clients to flap.	
Workaround: Not available	
Recovery: It recovers itself after sometime.	

Defect ID: DEFECT000638800	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: IPv4 Multicast Routing
Symptom: Console or telnet session will not respond for some time when user trying to delete all PIM configured VRF's in one shot and trying to execute PIM show commands at the same time.	
Condition: Resulted from Stress-to-fail testing designed to push the limits of the switch and fabric to point of failure by removing all PIM configured VRF's in one shot and trying to execute PIM show commands at the same time.	
Workaround: Workaround is to remove PIM configured VRF's one by one and by not running PIM show commands at the same time.	

Defect ID: DEFECT000638881	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: Sometime multicast traffic may flow on block-assert port due to asserting in PIM SM network.	
Condition: This issue happens with assert scenario in PIM SM network.	
Recovery: Recovery is to clear affected multicast entry using "clear ip pim mcache" command.	

Defect ID: DEFECT000639016	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: With more than or equal to 24k mache entries the entries keeps fluctuating by number. with ~20k entries this issue will not be observed. As expected traffic loss might occur due to this for some SG entries.	
Condition: This happens only when there are more than 20k mache entries.	

Defect ID: DEFECT000639070	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17s.1.00	Technology: CLI - Command Line Interface
Symptom: On executing "show access-list interface Management <num>" command, the subnet value of IPv6 host ACLs are shown in IPv4 format.	
Condition: When IPv6 ACLs configured with host address applied to management interface. And "show access-list interface Management <num>" command is executed.	
Workaround: Use "show running" configuration for the correct ACL rules.	

Defect ID: DEFECT000639074	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: MPLS VPLS - Virtual Private LAN Services
Symptom: In case of vpls scenario, packets may egress out on the PW uplink as corrupted, without an mpls label.	
Condition: When a large no of PW are configured, packets on some PW may egress out corrupted if the underlying interface is either vlan untagged or router port. This will happen when protected path configured as strict, while vpls traffic is riding on bypass path.	
Workaround: Using vlan tagged port for the PW underlying interface would resolve the issue.	

Defect ID: DEFECT000639226	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: BGP/MPLS VPN
Symptom: L3VPN routes may point to wrong tunnel ID.	
Condition: If "clear mpls ldp neighbor all" is done 10 times via scripts with 60sec intervals. L3VPN routes may point to wrong tunnel id.	
Workaround: Avoid "clear mpls ldp neighbor all" multiple times, wait for a while before doing subsequent trials.	
Recovery: Disable/enable all LDP lsps.	

Defect ID: DEFECT000639332	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: MCT - Multi-Chassis Trunking
Symptom: show mac CLI may fail to display all mac entries on MCT setup after HA failover	
Condition: In scaled MCT setup with dual management module, mac entries may fail to get displayed after switchover is performed from active control card to standby control card.	
Recovery: Need to clear the macs to relearn MAC entries again. Execute clear mac-address for respective vlans using cli command.	

Defect ID: DEFECT000639395	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: MCT - Multi-Chassis Trunking
Symptom: There may be Evpn-PW traffic drop for few BD's.	
Condition: HA with explicit isolation mode configured in MCT,	
Recovery: Deploy/un-deploy of cluster will resolve the issue or use of default isolation in cluster will prevent from occurrence of issue.	

Defect ID: DEFECT000639445	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: Configuration Fundamentals
Symptom: User may observe traffic drop for some BD in MCT-L2vpn senario.	
Condition: If HA is performed with explicit isolation mode configured in cluster.	
Recovery: Deploy/Un-deploy will resolve the issue.	

Defect ID: DEFECT000639476	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: Whenever a new link is added (new ECMP path) there could be some SG entries are not programmed causing traffic loss to some SGV's.	
Condition: ECMP enabled and need dynamic events like new path addition/HA or PIM add remove to get in to this state.	

Defect ID: DEFECT000639577	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: MBGP - Multiprotocol Border Gateway Protocol
Symptom: L3VPN traffic is dropped in egress PE device.	
Condition: Configure a new VRF for L3VPN along with more than 4K MPLS Tunnel (LDP+RSVP) and cross connect,	

Defect ID: DEFECT000639584	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: This issue may cause transient traffic loss until all the missing S G entries are re-converged back. max up to 60 sec for the affected flows.	
Condition: ECMP enabled and having multiple paths between two devices. if one of link is flap this issue could be seen.	

Defect ID: DEFECT000639608	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: Multicast flows will not be distributed evenly on all the available ecmp paths.	
Condition: If we disable and enable ecmp two or three times in one go this issue might be seen.	

Defect ID: DEFECT000639618	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: Traffic loss for non-programmed flows.	
Condition: LC reload is the trigger for this issue.	

Defect ID: DEFECT000639652	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: MCT - Multi-Chassis Trunking
Symptom: On dual-homed setups, if traffic from a client node is stopped and 'clear mac-address-table dynamic' is executed on both peers, a few remote client MAC addresses (CCR MAC) may remain on one of the nodes. These will be displayed when the user executes 'show mac-address-table' on this node and will be missing from the peer node. Since these MAC addresses are remote addresses, they will not age out or re-sync to the peer. On this node, traffic with destination as one of these MAC addresses will be continue to be forwarded to the client interface on which they were learnt.	
Condition: The issue may be seen intermittently on dual-homed setups with very high number of MAC addresses	
Workaround: Allow MAC addresses to age out instead of executing 'clear mac-address-table' after traffic stops	
Recovery: Restart traffic from these client MAC addresses	

Defect ID: DEFECT000639800	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: BGP4 - IPv4 Border Gateway Protocol
Symptom: PE to CE traffic may get affected if VRF configuration is removed and restored back from a VE.	
Condition: On manual removal/addition of VRF configuration from a VE.	
Workaround: Avoid changing VRF configuration from a VE if traffic is flowing between PE to CE.	

Defect ID: DEFECT000639910	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: IPv4 Multicast Routing
Symptom: Traffic loss for some multicast groups for which HW index is not programmed properly.	
Condition: ECMP enabled with 32 paths and do flap the interface.	

Defect ID: DEFECT000639931	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: MPLS VPLS - Virtual Private LAN Services
Symptom: VPLS FRR bypass traffic will not work if the bypass LSP rides over physical interface	
Condition: This a known limitation in VPLS bypass FRR where the bypass LSP should configured only in VE interfaces. Bringing up bypass LSP over router interface will have impact in vpls traffic if PW uses this specific tunnel.	

Defect ID: DEFECT000639976	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: MCT - Multi-Chassis Trunking
Symptom: Communication failure between MCT nodes for specific VLANs/Bridge-Domains (BDs)	
Condition: In rare scaled VE use cases where multiple events are triggered simultaneously the management module and line card module goes out of sync.	
Workaround: User can do clear mac for the VLAN/BD to resolve the issue.	
Recovery: User can do clear mac for the VLAN/BD to resolve the issue.	

Defect ID: DEFECT000640241	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: IP over MPLS
Symptom: In case of L3 MCT scenario, the packets coming out of ICL link may be corrupted and get dropped when the ICL interface is either VLAN untagged or router port.	
Condition: The packets coming out of ICL link in case of L3 MCT may be tagged instead of untagged and hence considered as corrupted and dropped. This happens only when the ICL link is either vlan untagged or router port.	
Workaround: Using VLAN tagged port for the ICL link would resolve the issue	

Defect ID: DEFECT000640295	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: MCT - Multi-Chassis Trunking
Symptom: In Scaled scenarios in certain scenarios MAC address table may not be in sync with MCT peer.	
Condition: In scaled setup with 3000 Member VLANs and 200000 MAC address entries present in the systems with certain sequence of steps like shut the client interfaces on both MCT nodes in a specific scenario causing MAC address table not to be in sync.	
Workaround: Perform the "clear mac-address-table dynamic vlan <id>" for the specific VLANs in problem state. Or user can execute "clear mac-address-table dynamic" to re-sync all the MAC address entries.	
Recovery: Steps mentioned in workaround section will recover the system from problem state.	

Defect ID: DEFECT000640298	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: Configuration Fundamentals
Symptom: User may observe traffic drop for a BD in MCT-VLL scenario.	
Condition: If user performs deleting of peer IP and re-adding it multiple time may lead to this issue.	
Recovery: Bridge-Domain flap or Deploy/Un-deploy of Cluster will recover the issue.	

Defect ID: DEFECT000640308	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: Configuration Fundamentals
Symptom: Duplicate VPLS traffic might be observed when client is un-deployed one side.	
Condition: When client is un-deployed on side where node NOT elected as DF. MACs are getting flushed causing flooding of packets, when Peer MCT node receives flooded traffic will forward additional copy to client.	
Workaround: Deploy the client back.	
Recovery: Deploy the client back to avoid packet duplication.	

Defect ID: DEFECT000640361	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: VXLAN - Virtual Extensible LAN
Symptom: If customer has a VTEP Node with site 1 & Site 2 and extend a specific VLAN only on site 2. If the traffic is received from the corresponding VNI on site 1, it will still be flooded/forward on the VLAN (though site 1 was not extended on the specific VLAN)	
Condition: It is a misconfiguration since the vlan is extended only on 1 VTEP Node and not on the other node, this limitation can be documented as part of the configuration guide.	

Defect ID: DEFECT000640601	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: SDN
Reported In Release: SLXOS 17r.1.00	Technology: OpenFlow
Symptom: Customer may experience a slow rate in pushing large number of flows over SSL/TLS connection. But it eventually completes the whole operation. This does not happen all the time.	
Condition: Particularly, when every flow comes with a barrier. For instance, 4K of FLOW-MOD followed by BARRIER-Request over SSL/TLS.	
Workaround: Workaround to avoid the condition: 1. For optimization, send multiple flows per barrier. 2. While flow-programming is in-progress and if CLI access is over SSH, refrain from doing "show openflow flow" as it dumps lots of flow entries.	
Recovery: This does not happen all the time. And if it does, it eventually completes.	

Defect ID: DEFECT000640625	
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: Packets matching Deny rules in L2 ACL applied as RL are not policed and MAC learning happens for those traffic.	
Condition: L2 ACL containing deny rules and applied as RL.	
Workaround: Configure MAC ACL in the same interface where RL is applied. Packets will get dropped and mac learning will not happen for the packets matching deny rules.	
Recovery: Configure MAC ACL in the same interface where RL is applied. Packets will get dropped and mac learning will not happen for the packets matching deny rules.	

Defect ID: DEFECT000640885	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: MPLS VPLS - Virtual Private LAN Services
Symptom: "HW create LIF failed" message observed on console after reload	
Condition: May occur on scaled configuration with MCT.	

Defect ID: DEFECT000640960	
Technical Severity: Medium	Probability: Low
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.00	Technology: Software Installation & Upgrade
Symptom: At Linux shell, "bash: /var/log/shell_activity.log: Permission denied " message will be shown, on execution of any command.	
Condition: "/var/log/shell_activity.log" file is used to log user entered commands at Linux shell. The warning message is shown, if "/var/log/shell_activity.log" file permission is manually changed to read only or if the file itself is removed from the device.	
Workaround: Avoid changing the permission of "/var/log/shell_activity.log" file	
Recovery: Execute "start-shell" command, ignore the warning message and escalate privilege for root access using "su root" command. Create shell_activity.log file under "/var/log/" directory if it does not exist and provide 0666 permission	

Defect ID: DEFECT000641004	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.00	Technology: Software Installation & Upgrade
Symptom: Error message appears on console: wall: will not read /tmp/warn_msg.txt - use stdin.	
Condition: Upon upgrading FPGAs.	

Defect ID: DEFECT000641231	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: BGP4 - IPv4 Border Gateway Protocol
Symptom: In case of L3 MCT scenario, the packets coming out of ICL link may be corrupted and get dropped .	
Condition: This happens only when the ICL link is either VLAN untagged or router port.	
Workaround: Using VLAN tagged port for the ICL link would resolve the issue	

Defect ID: DEFECT000641314	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: VXLAN - Virtual Extensible LAN
Symptom: Static MAC configured for BD under overlay-gateway	
Condition: when VC ID = 4097 is used	

Defect ID: DEFECT000641487	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: IPv4 Multicast Routing
Symptom: Very few multicast packet loss may happen when user removes all PIM VRF configuration at once and adding them back again.	
Condition: This issue happened when user removes multiple PIM VRF configuration at once and again configuring all removed PIM VRF configuration immediately.	
Workaround: Workaround is to remove and add PIM VRF configuration one by one.	
Recovery: Recovery is to clear affected entry using "clear ip pim mcache" command.	

Defect ID: DEFECT000641712	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.00	Technology: MPLS VPLS - Virtual Private LAN Services
Symptom: Traffic outage is seen when lots of adaptive re-signaling kicks in due to fr-global-revertive timer expiry, re-optimization and other adaptive re-signaling events.	
Condition: This happens when the timers mainly retry-timer, reoptimization timer, fr-global revertive hold-time have aggressive configuration.	
Workaround: Reduce the aggressiveness of the retry-timer, reoptimization timer. Have different fr-global-revertive holdtime on edge routers.	

Defect ID: DEFECT000641756	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: VXLAN - Virtual Extensible LAN
Symptom: During upgrade some of the remote EVPN macs may not be in sync with remote MCT node.	
Condition: Software upgrade of the system.	
Workaround: Use the "clear mac-address-table dynamic vlan <id>" for specific VLANs in problem state. Or user can execute "clear mac-address-table dynamic" to re-sync complete MAC table.	
Recovery: Use of the above mention workaround or clearing BGP session will recover.	

Defect ID: DEFECT000641811	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: Software Installation & Upgrade
Symptom: Kernel dumps the stack trace with following details. The kernel reset might be observed during heavy concurrent file system operation, specifically upgrade, file copy and scanning the files on the /proc and ext4 file system simultaneously.	
<pre> [367.752972] BUG: unable to handle kernel paging request at 250bae3c [367.754413] IP: [<810f87a5>] fput+0x0/0x16 [367.755277] *pdpt = 000000002ff3e001 *pde = 0000000000000000 [367.756377] Oops: 0002 [#1] PREEMPT SMP [367.757374] last sysfs file: /sys/devices/system/cpu/online [367.762867] [367.762867] Pid: 4820, comm: pdmd Tainted: P 2.6.34.6 #1 /Standard PC (i440FX + PIIX, 1996) [367.763947] EIP: 0060:[<810f87a5>] EFLAGS: 00010246 CPU: 4 [367.763947] EIP is at fput+0x0/0x16 [367.763947] EAX: 250bae00 EBX: a5eabda4 ECX: 00000000 EDX: 00000000 [367.765536] ESI: a5eabd28 EDI: 00000000 EBP: a5eabbfc ESP: a5eabbf4 [367.766133] DS: 007b ES: 007b FS: 00d8 GS: 00e0 SS: 0068 [367.766133] Process pdmd (pid: </pre>	
Condition: Firmware Download to upgrade from one version of SLXOS to another.	
Workaround: No workaround	
Recovery: No recovery, as this kernel panic dump happens during reboot following Firmware Download. Subsequent reboot, shall bring up the MM in Enabled state.	

Defect ID: DEFECT000641989	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: IP over MPLS
Symptom: With Scaled config, On linecard reload, MPLS tunnel programming in hardware is taking longtime to get completed resulting the traffic loss for 5 mins.	
Condition: On Linecard reload	

Defect ID: DEFECT000642007	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: Possibly traffic loss for the egress which is not programmed against a given SGV.	
Condition: Reload or reboot of device.	

Defect ID: DEFECT000642080	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: MPLS VLL - Virtual Leased Line
Symptom: In a scaled configuration (more Bridge domains > 2500), multiple client interfaces and with bidirectional traffic running between remote peer and client end, when client interface single member port-channel member interface is removed, traffic leaks in to native VLAN	
Condition: Issues happens in scaled config and also issue happens when there are multiple client interface connections. Issue doesn't happen easily.	
Workaround: configure trunk-no-default-native on underlying client interfaces	

Defect ID: DEFECT000642199	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: BGP4+ - IPv6 Border Gateway Protocol
Symptom: After firmware upgrade, very few IPv6 BGP sessions might not come up properly and might remain at CONN state.	
Condition: This might happen during firmware upgrade.	
Workaround: 'shutdown ' followed by 'no shutdown' CLI execution on the corresponding L3 interface mostly solves the problem.	

Defect ID: DEFECT000642273	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: BGP4 - IPv4 Border Gateway Protocol
Symptom: Some BGP routes might not be added to RIB under route scale condition.	
Condition: When routes are flapped when the number of routes in RIB is close to route limit of 255k IPv4 routes.	
Recovery: Issue 'clear ip route bgp' to re-add BGP routes to RIB.	

Defect ID: DEFECT000642415	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: MPLS Traffic Engineering
Symptom: Issue observed in unlikely stress-to-fail scenarios only where few of the detour path of FRR LSPs won't come UP since their retry timer is not running.	
Condition: RSVP Detour FRR LSPs configuration with moderate (few hundreds FRR LSPs) to high (few thousands) scale. Events to trigger bring down of an existing operational detour path followed by attempt to bring them up may lead to this issue.	
Workaround: Clearing the LSP from Ingress router will rectify the condition.	
Recovery: Clearing the LSP from ingress will rectify the condition.	

Defect ID: DEFECT000642418	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: MCT - Multi-Chassis Trunking
Symptom: stale CCL mac entries in mac-address-table	
Condition: client-interface shutdown after flapping the cluster for few times	
Recovery: need to remove the stale entries in MAC table using the below CLI: clear mac-address-table cluster	

Defect ID: DEFECT000642641	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: MBGP - Multiprotocol Border Gateway Protocol
Symptom: VPNV4 ORF receive capability is not disabled on removing the config.	
Condition: enable ORF prefix list capability and then try to disable it	
Recovery: configure "no neighbor x.x.x.x capability orp prefix-list send " and "no neighbor x.x.x.x capability orf prefix-list receive" separately	

Defect ID: DEFECT000642676	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: BGP/MPLS VPN
Symptom: After restarting MPLS on remote PE, sometimes traffic would be stopped for few VRF in a scaled system	
Condition: It happens in case of process restart of MPLS, with loaded config and not consistent	
Recovery: Clearing any route in that particular VRF will resolve the issue	

Defect ID: DEFECT000642685	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: MBGP - Multiprotocol Border Gateway Protocol
Symptom: Extended extcommunity-list is not working for RR group.	
Condition: Configuring Extended extcommunity-list for RR group	
Recovery: Avoid using Extended extcommunity-list for RR group.	

Defect ID: DEFECT000642720	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: SNMP - Simple Network Management Protocol
Symptom: Customer will see error messages like "ERROR IPC: IPC checksum 0000B413 should be 000010E8, msg 209 p=B25EF05D len=32696" in LC console.	
Condition: No impact to the traffic. The issue here is transient due to some dysync packet corruption. A recovery mechanism is in place in pwm which will trigger dy sync redownload in such error scenarios	

Defect ID: DEFECT000643101	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17r.1.01	Technology: OAM - Operations, Admin & Maintenance
Symptom: CFM/Y1731 MEP configuration does not get loaded into running config, while loading the configuration file from flash.	
Condition: CFM/Y.1731 features needs to be enabled	
Workaround: After copying configuration file from flash, MEPs configuration needs to reconfigured.	

Defect ID: DEFECT000643112	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Traffic Management
Reported In Release: SLXOS 17r.1.01	Technology: Rate Limiting and Shaping
Symptom: Linecard reboots on performing a firmware upgrade/downgrade.	
Condition: access-list binding / storm control / rate-limiting configurations present in the start-up/running configuration.	

Defect ID: DEFECT000643163	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: LAG - Link Aggregation Group
Symptom: Traffic egress from LAG has always VLAN priority zero.	
Condition: Egress port is a member of LAG, then this issue is seen.	
Workaround: Not available	
Recovery: N/A	

Defect ID: DEFECT000643295	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: IGMP - Internet Group Management Protocol
Symptom: Multicast traffic may not be flooded.	
Condition: a. HA failover b. multiple enable/disable snooping.	
Workaround: Do not disable snooping after failover.	
Recovery: Reboot the box	

Defect ID: DEFECT000643297	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: MPLS
Reported In Release: SLXOS 17r.1.01	Technology: MPLS Traffic Engineering
Symptom: FRR-facility backup LSP will go down after failover to backup path.	
Condition: This issue will happen only when there is asymmetric RSVP reliable-messaging configuration. Specifically, if the point-of-local-repair does not have RSVP reliable-messaging configured but the merge-point has RSVP reliable messaging configured on the relevant interfaces on which the Backup-signaling packets are going.	
Workaround: Configure symmetric RSVP reliable-messaging on both ends of the link. Either it should be enabled on both ends or disabled on both ends of a link.	

Defect ID: DEFECT000643332	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Traffic Management
Reported In Release: SLXOS 17r.1.01	Technology: Rate Limiting and Shaping
Symptom: In scale scenario stats does not work for some class-maps	
Condition: If stats are enabled in scaled setup and stats resources are exhausted then stats may not work for some class-maps.	
Workaround: No workaround	
Recovery: Reduce scale.	

Defect ID: DEFECT000643347	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: Software Installation & Upgrade
Symptom: Customer will observe box being rebooted.	
Condition: Rest/Netconf requests are in process or just finished when "show" cli is being issued in parallel.	
Workaround: "show" CLIs to be avoided while netconf/Rest heavy operations are going on.	
Recovery: Device should recover automatically after reboot.	

Defect ID: DEFECT000643484	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: MBGP - Multiprotocol Border Gateway Protocol
Symptom: BGP daemon restarts upon issuing repeatedly 'clear ip bgp neighbor all'.	
Condition: BGP daemon restart upon issuing repeatedly 'clear ip bgp nei all' when BGP is running IPv4, IPv6 and L3VPN address-families.	
Workaround: Avoid issuing command 'clear ip bgp neighbor all' repeatedly.	

Defect ID: DEFECT000643498	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: BFD - BiDirectional Forwarding Detection
Symptom: When BFD session is over multi-slot LAG, powering off the LC currently being used by BFD may cause the session to flap. This happens to sessions that have sub-second detection times.	
Condition: BFD sessions configured over multi-slot LAG and LC power-cycle.	

Defect ID: DEFECT000643636	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: MCT - Multi-Chassis Trunking
Symptom: System may unexpected reload.	
Condition: In L2 MCT, if HA is triggered with continuous BGP flap. Probability of issue is too low. It has been observed only once.	

Defect ID: DEFECT000643651	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: MCT - Multi-Chassis Trunking
Symptom: After linecard reloads on scaled MCT setup, mac entry may fail to get populated correctly causing traffic to be flooded on VLAN.	
Condition: After linecard reload, MAC entries can get out of sync between line card and management module due to system load. This could result into stale MAC entries resulting into traffic flooding over the VLAN.	
Recovery: Clear mac table to repopulate the MAC entries	

Defect ID: DEFECT000643756	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: Configuration Fundamentals
Symptom: When both the MCT cluster pairs are operation in a loose isolation-mode (non-default configuration), if user reloads one of the MCT node then the VLL traffic passing through the other node observes 100% loss.	
Condition: When both the MCT cluster pairs are operation in a loose isolation-mode (non-default configuration),	

Defect ID: DEFECT000643758	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17r.1.01	Technology: Configuration Fundamentals
Symptom: When an LC reboots, traffic forwarding for certain streams going out on ICL link could be affected.	
Condition: The issue happens when a line card is rebooted.	

Defect ID: DEFECT000643778	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17r.1.01	Technology: MCT - Multi-Chassis Trunking
Symptom: Unexpected reload will be observed.	
Condition: Reloading the active MM.	

Defect ID: DEFECT000643791	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: Layer 3 Multicast Traffic is not sent to some receivers some times	
Condition: a. Repeatedly cli configuration of "switchport" and "no switchport" at interface level of cli configuration b. Perform ha-failover.	
Recovery: CLI command: "clear the pim mcache"	

Defect ID: DEFECT000643804	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: In scaled PIM Multi-VRF setup few multicast entries in one of the VRF may not be switched to SPT.	
Condition: This issue happened in scaled setup, during convergence few multicast entries are not moved to SPT path.	
Recovery: Recovery is to clear affected entries using "clear ip pim mcache <src> <group> vrf <vrf-id>"	

Defect ID: DEFECT000643819	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17r.1.01	Technology: PIM - Protocol-Independent Multicast
Symptom: Traffic outage can be observed.	
Condition: Removal and addition of BSR's config can lead to the issue.	
Workaround: Configure static RP.	

Defect ID: DEFECT000644035	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17r.1.01	Technology: BFD - BiDirectional Forwarding Detection
Symptom: BGP BFD sessions flap on switching to ECMP path.	
Condition: 32 BFD sessions with 300 ms timer.	
Workaround: No workaround. See release restriction section.	