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Extreme®
Connect Beyond the Network

SLX-OS 17r.2.01 for SLX 9850 and SLX 9540

Release Notes v1.0

Contents

Document history

Version	Summary of changes	Publication date
1.0	Initial Release	March 15, 2018

Preface

Contacting Extreme Technical Support

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

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

- GTAC (Global Technical Assistance Center) for immediate support
- Phone: 1-800-998-2408 (toll-free in U.S. and Canada) or +1 408-579-2826. For the support phone number in your country, visit: www.extremenetworks.com/support/contact.
- Email: support@extremenetworks.com. To expedite your message, enter the product name or model number in the subject line.
- GTAC Knowledge - Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance.
- The Hub - A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.
- Support Portal - Manage cases, downloads, service contracts, product licensing, and training and certifications.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number and/or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any action(s) already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

Extreme resources

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

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

Document feedback

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

You can provide feedback in two ways:

• Use our short online feedback form at http://www.extremenetworks.com/documentation-feedback-pdf/

• Email us at internalinfodev@extremenetworks.com

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

Overview

SLX-OS 17r.2.01 supports a number of software features and capabilities enabling the following solutions:

A. Border Routing: OptiScale for Internet Routing for Border Router PIN is introduced on SLX 9850 and SLX 9540 routers. BGP RIB scale is increased to receive multiple feeds and FIB scale is increased to hold a full internet table.

B. Data Center: IP Fabric with BGP EVPN VXLAN is introduced on SLX 9540 for L2VNI Logical VTEP.

C. Network Packet Broker solution has new additions in the form of header-stripping (VN-tag, 802.1br, VXLAN) and Flex ACL features for SLX 9850.

For L2 Exchange solution, load-balancing enhancements are supported for SLX 9850 and SLX 9540 to enable better transit load-balancing performance. Flow-label support and PWE Control-word insertion features introduced assist with transit load-balancing as well. A few other customer RFEs, which are part of the release, enable SLX deployments for this use case.

For Insight Architecture, new Guest VM applications Logstash, Python/Go, and Puppet are validated in these releases. In addition, activation of 'service port', which is the ability to use full capacity of the Guest VM storage on SLX 9850 and SLX 9540, is introduced in this release.

New SKUs

No new SKUs are introduced in this release.

Behavior changes

Behavior changes in release 17r.2.01

Firmware download with the fullinstall option will retain the startup configuration file, and upon the rebooting of the device, it will replay the startup configuration file automatically.

Behavior changes in release 17r.2.00

The following system behaviors have changed in this release:

- Starting with SLX-OS 17r.2.00, it is running with a 64-bit OS. Special firmware upgrade option is required to upgrade from previous releases to SLX-OS 17r.2.00. See "Upgrade" section for more details.

- Enhanced the reload command
  - Reload reboots the VMs in both MMs in a chassis system (previously, it initiated cold failover)
  - Reload standby [system] – the system option is new; if "system" is specified, it reboots both the host and the VM in the standby MM
  - Reload system [powercycle] – the powercycle is new; if "powercycle" is specified, it resets the system FPGA
- REST - GET query on top level URI - /rest/operational-state is blocked in SLXOS17r.2.00 release
- RADIUS source interface will be supported only under management-vrf context; when source interface config is specified under default-vrf or user defined vrf context, it will be ignored and fall back to the default behavior; the default behavior is: for RADIUS requests, the source-IP in the IP header is set to same as the interface IP address, through which interface the RADIUS request packets exit the SLX device

- NETCONF and REST/RESTCONF request logging is now enabled by default

- The below MPLS speculation CLI commands are not supported in "Layer-2 Optimized" cam profile, as it is not compatible with MPLS transit advanced load balancing feature introduced in this release
  - lag hash speculate-mpls inner-eth
  - lag hash speculate-mpls inner-ip-raw
  - lag hash speculate-mpls inner-ip-tag
  - lag hash speculate-mpls inner-ipv6-raw
  - lag hash speculate-mpls inner-ipv6-tag
- The following features are not supported in "Layer-2 Optimized" cam profile:

- - L3 control protocols over MCT
  - CFM ingress trapping over VPLS/VLL
  - VXLAN Logical VTEP
  - Loop detection protocol
- MAC : Default age time out was increased from 5 mins to 30 mins
- ARP : Default age time out was reduced from 4 hrs to 25 mins
- MCT configuration is changed in this release
  - Cluster member VLAN/Bridge-domain command is deprecated
  - BGP EVPN VLAN/Bridge-domain command is required
  - RD/RT for each EVPN VLAN/Bridge-domain is configurable under BGP EVPN
- VPLS/VLL raw pass-through VC mode: Starting with 17r.2.00, if untagged end points are used with this feature, the TPID value is not automatically set to 0x9100; users should explicitly configure it
- VXLAN L2 Gateway: Inner L2 packets will be sent out as untagged always regardless if original L2 packet is untagged or tagged; in the previous release, if the original packet is tagged, after encapsulation into VXLAN packet, inner packet is tagged; otherwise it is untagged
- To enable BGP routes redistribution in non-default-VRF, users must configure 'vrf-lite-capability' under '[ipv6] router ospf vrf <vrf-name>'; this was enabled by default in SLXOS 17r.1.00
- A warning message is added when enabling BGP process restart if BGP EVPN neighbor is configured – and vice versa
- 802.1ag changes
  - Specifying Domain ID is mandatory from SLXOS17r.2.00 release while configuring domain; it was not mandatory in earlier releases
  - When downloaded from external file, the CFM configuration would be present after the interface and mpls configuration in the running configuration from SLXOS17r.2.00 release; in earlier releases, CFM configuration is present before interface running configuration

    The domain-name command in CFM protocol configuration mode creates a maintenance domain with a specified id, level and name and enters the Specific Maintenance Domain mode specified in the command argument.

    device(config-cfm)#domain-name VPLS-SP id 2 level 4

    device(config-cfm-md-VPLS-SP)#

  - From SLXOS17r.2.00 release, CFM Maintenance Association with service as bridge domain would not be allowed to be created when the underlying bridge domain is not present; it was allowed in 17r.1.01 and earlier releases.
  - When downloaded from an external file, CFM configuration would be present after the interface and mpls configuration in the running configuration from SLXOS 17r.2.00 release; in earlier releases, CFM configuration is present before interface running configuration.

Software Features

New software features in 17r.2.01

The following software features are new in this release:

- Optiscale for Internet Routing
    - It is now possible to support internet peering scale on both SLX 9540 and SLX 9850; optimizations in software and hardware enable future-proof deployments as border router
- BGP EVPN Layer 2 Support
    - EVPN BGP Control Plane: Support for EVPN route types
    - Dynamic VXLAN Tunnel discovery: Supports Dynamic Tunnel discovery using BGP EVPN
    - L2VNI capability
    - Bridge Domain Support: BGP-EVPN is supported over basic VLAN and Bridge-Domain
    - Logical VTEP: A logical VXLAN tunnel end point (LVTEP) is supported at Layer 2 for SLX-9540

- Non-default Tag Protocol Identifier (TPID) Configuration Support

- L2/V4/V6ACL per port scale increase (ACL TCAM sharing)
    - Under supported TCAM profiles, sharing of TCAM resources can be enabled for each security ACL or PBR ACL applied to multiple ports

New software features in 17r.2.00

System Enhancements

- SLX-OS will be run as a 64-bit Linux-based OS to allow for larger scales applications and easier third party software integrations in the future releases
- 64-bit Full Install: New command to allow upgrade or firmware download between 32-bit OS and 64-bit OS software
- Reload Enhancements: Reload command is enhanced with a CLI option "powercycle" to power cycle the entire device for SLX-9850, thereby providing the capability to remotely power cycling the device or upgrading sysfpga or CPLD
- Write Erase: Command allowing user to erase all configurations and bring it to factory default state

- Packet Processor HW Resource Monitoring: Network Packet Processor HW resources (CAM, LEM, LPM) are monitored when the hardware tables are becoming fully utilized
- Low CAM Resource Alert: raslog is generated when available CAM resource is lower than 20%

- TCAM sharing: Under supported TCAM profiles, you can enable sharing of TCAM resources for each security ACL or PBR ACL applied to multiple ports

- Platform Optical Temperature Monitoring (Supported with SLX-9540 only): Temperature of QSFP optics is monitored and raslog if warning level is reached, fans is set to HIGH speed; if it's a critical temperature, optics is put at reset stage
- Link level flow control (LLFC) enhancement: The generation of LLFC PAUSE frames, and displaying and clearing of PAUSE frame statistics is supported starting with this release
- Supportsave Enhancements: TM, SFM, CPU and TM packet statistics and command are added to supportsave; entire register dumps of the PP/TM device are also saved in Supportsave, which is helpful for offline debugging

- CLI to configure L2 MTU & IP MTU globally using a single command

Internet Routes Scaling (OptiScale Routing)

- This capability supports internet peering scale on SLX 9540 and SLX 9850; optimizations in software and hardware enabling future-proof deployments as border router
- Routing Information Base (RIB) scale and Forwarding Information Base (FIB) scales are increased in this release to support internet peering on SLX 9540 as border router PIN; full internet FIB can be stored with hardware-based forwarding for all IPv4 and IPv6 prefixes learned from BGP; number of BGP RIB-in and RIB-out and number of BGP peer sessions are substantially increased in this release to support internet peering
- BGP best-external route: Support for the advertisement of the best external route, which is the most preferred route among those received from external neighbors

L2 Exchange Enhancements

- Pseudowire (PW) control word and flow label: PW control word and PW flow label are mechanisms that improve Multi-Protocol Label Switched packet switched network (MPLS PSN) LSR load-balancing
- MPLS transit load balancing: MPLS transit load balancing provides support for SLX-OS MPLS packet load balancing based on the inner headers when the Layer 2 optimized TCAM profile configuration is activated
- With MAC / IPv4 acl with log option generate raslog

Static VXLAN Enhancements

- Bridge Domain VE support for Static VXLAN gateway: The device routes/switch VXLAN Layer 2 and Layer 3 traffic over a VXLAN tunnel, and conversely
- Ability to preserve QoS IP headers in VXLAN packets and in MPLS packets: VXLAN Layer 2 gateways, VXLAN Layer 3 gateways, and VXLAN Layer 2 and Layer 3 gateway interconnections can be configured to support QoS

Network Packet Broker Enhancements

- Header stripping: Protocol headers help packets reach their destinations, but are not needed by the security and monitoring tools to which NPB forwards traffic. You can now strip VXLAN, VN-Tag, and 802.1BR headers
- Flex ACLs (UDAs): UDAs examine packet fields at specified offsets, applying permit and deny rules

Guest VM/Insight Architecture Enhancement

- Guest VM storage: Updated the SLX 9850 Guest VM storage to 256GB and SLX 9540 Guest VM storage to 128GB
- Service Port to Guest VM: For both SLX-9850 and SLX-9540, an additional 10G base-T out-of-band port can be enabled to provide analytic applications and data path with the Guest VM
- Python/Go Applications, Logstash and Puppet support in Guest VM

Manageability Enhancements:

- TACACS+ command authorization: Allows the TACACS+ user role to execute commands normally restricted to the administrator role
- New SNMP MIBs:
    - IEEE8021-CFM-MIB, IEEE8021-CFM-V2-MIB
    - Proprietary Brocade-L2-ACL-MIB
    - Y.1731 MIB (MEF-SOAM-PM-MIB)
- RESTCONF support for PUT, PATCH, POST, DELETE methods
- Command "show running-config all" to include the default values of the command in the output
- NTP feature expanded to support server and peer mode, in addition to existing client mode
- Syslog enhancements to meet RFC-5424 compliance
- sFlow agent ID field is now configurable and sFlow source interface configuration has "management" as one of the interface options
- Package upgrades for various OSS to address vulnerabilities
- NETCONF and REST/RESTCONF request logging is now enabled by default

- The Extreme SLX-OS RESTCONF guide and the Extreme SLX-OS Puppet's User guide are new publications introduced in the SLX-OS 17r.2.01 release:

  - The SLX RESTCONF feature supports all the operations such as GET, HEAD, OPTIONS, POST, PUT, PATCH, and DELETE method to retrieve the details about the configuration data, YANG schema, and the operational-state data
  - The Extreme SLX-OS Puppet User's Guide provides information on the Guest virtual machine (TPVM) application, Puppet in the SLX-OS 17r.2.01; Puppet is a scripting language available from Puppet Labs that system administrators can use to automate configuration and management of a data center

Other features

- Multicast over Bridge-Domain: IGMP (v1, v2, v3) snooping and PIM snooping, PIM-SM is supported on VE over Bridge-Domain

- IGMP Snooping Over MCT

- 802.1ag Connectivity Fault Management (CFM) for VLL
- Y.1731 for VLL
- Routing over VPLS (VEoVPLS): Support for configuration of a Virtual Ethernet (VE) interface on a Virtual Private LAN Service (VPLS) instance for default and non-default VRF IPv4 and IPv6

CLI commands

CLI commands

New commands

The following commands are new in this release:

- aaa authorization command
- add (Telemetry)
- additional-paths
- additional-paths select
- advertise-best-external
- clear ipv6 nd suppression-cache
- clear ipv6 nd suppression-statistics
- clear logging raslog
- clear qos flowcontrol
- control-word
- default-ipv6-gateway
- disallow-oar-ac
- firmware peripheral-update cpld
- flow-label
- format RFC-5424
- interface (Telemetry)
- interval (Telemetry)
- loopback
- map vni auto
- match additional-paths advertise-set
- neighbor additional-paths
- neighbor additional-paths advertise
- neighbor additional-paths disable
- ntp authenticate
- ntp disable
- ntp master
- ntp peer
- ntp trusted keys
- profile route
- profile tcam cam-share
- profile tcam limit
- qos-ttl-mode
- seq (deny/permit rules in UDAs)
- sflow agent address
- show bgp evpn routes type
- show bgp evpn routes type igmp-join-sync
- show bgp evpn routes type igmp-leave-sync

- show bgp evpn l3vni
- show ipv6 nd suppression-cache
- show ipv6 nd suppression-statistics
- show ipv6 nd suppression-status
- show logical-interface bridge-domain
- show logical-interface ethernet
- show logical-interface port-channel
- show logical-interface pseudo-wire
- show ntp status association detail
- show ntp status associations
- show packet-encap-processing
- show peripheral-version cpld
- show running-config aaa authorization command
- show running-config uda access-list
- show running-config uda-key profile
- show running-config telemetry profile (VOQ)
- show telemetry collector
- show telemetry collector summary
- show telemetry server status
- shutdown (LIF)
- strip-802-1br
- strip-vn-tag
- strip-vxlan
- suppress-arp
- tag-type
- uda access-group
- uda access-list
- uda-key profile
- uda-offsets
- uda-profile-apply

Modified commands

The following commands have been modified for this release:

- ccm-interval
- esi
- firmware download fullinstall
- logical-interface
- loop-detection
- loop-detection shutdown-disable
- ntp authentication-key
- ntp server
- peer
- profile tcam
- protocol cfm
- qos flowcontrol
- router-interface
- sflow source-interface
- show access-list
- show cluster
- show ip bgp
- show ip bgp neighbors
- show ip bgp routes
- show loop-detection
- show mac-address-table
- show media optical-monitoring [dwdm|pam4|pam4-error]
- show qos flowcontrol
- show qos interface ethernet
- show running-config
- show sflow
- show statistics access-list
- telemetry profile
- trigger

Deprecated commands

The following commands have been deprecated beginning with this release:

- member bridge-domain (MCT)
- member vlan (MCT)
- show image-snapshot
- image-snapshot create

RFCs and standards

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

[SLX 9850 Data Sheet](#)

[SLX 9540 Data Sheet](#)

Hardware support

Supported devices

The following devices are supported in this release:

Supported Hardware	Description
BR-SLX9850-4-BND-AC	Extreme 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	Extreme 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	Extreme 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	Extreme 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	Extreme SLX 9850 72-port 10 GbE/1 GbE dual-speed (M) interface module with IPv4/IPv6/MPLS hardware support. Requires SFP+ optics for 10 GbE connectivity and SFP optics for 1 GbE connectivity. Supports up to 750,000 MAC. Supports up to 1,500,000 IPv4 routes, 140,000 IPv6 routes with OptiScale™ Internet Routing.
BR-SLX9850-100GX36CQ-M	Extreme SLX 9850 36-port 100 GbE, 60-port 40 GbE, or 240-port 10 GbE flex-speed (M) interface module with IPv4/IPv6/MPLS hardware support. Requires QSFP28 optics for 100 GbE, QSFP+ optics for 40 GbE, and 40 GbE to 10 GbE breakout for 10 GbE connectivity. Supports up to 750,000 MAC. Supports up to 1,500,000 IPv4 routes, 140,000 IPv6 routes with OptiScale™ Internet Routing.
BR-SLX9850-10GX72S-D	Extreme SLX985072-port 10GbE/1GbE (D) interface module with IPv4/IPv6 hardware support. Requires SFP+ optics for 10GbE connectivity and SFP optics for 10Gbe connectivity. Supports 750K MAC, 256K IPv4 routes and 64K IPv6 routes with up to 8GB packet buffers
BR-SLX9850-100GX36CQ-D	Extreme 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
BR-SLX9850-100GX12CQ-M	Extreme SLX 9850 12-port 100 GbE, 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 (for 10 GbE) connectivity. Supports up to 750,000 MAC. Supports up to 1,500,000 IPv4 routes, 140,000 IPv6 routes with OptiScale™ Internet Routing.
BR-SLX9850-100GX6CQ-M-UPG	6x100G POD SW license to be used with SLX9850-100Gx12CQ-M 100G blade only
XBR-SLX9850-4-S	Extreme SLX9850 Spare 4-slot chassis
XBR-SLX9850-8-S	Extreme SLX9850 Spare 8-slot chassis
BR-SLX9850-MM	Extreme 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	Extreme SLX 9850 switch fabric module for 4-slot chassis
BR-SLX9850-8-SFM	Extreme SLX 9850 switch fabric module for 8-slot chassis
XBR-SLX9850-ACPWR-3000	Extreme SLX 9850 AC 3000W power supply for 4- and 8-slot chassis, 90-270V AC input
XBR-SLX9850-DCPWR-3000	Extreme SLX 9850 DC 3000W power supply for 4- and 8-slot chassis
XBR-SLX9850-4-FANM	Extreme SLX 9850 fan module for 4-slot chassis. Fan module has 2 fans
XBR-SLX9850-8-FANM	Extreme SLX 9850 fan module for 8-slot chassis. Fan module has 4 fans
XBR-SLX9850-4-CAB	Extreme SLX 9850 Cable Combo Kit for 4-slot chassis
XBR-SLX9850-8-CAB	Extreme SLX 9850 Cable Combo Kit for 8-slot chassis
XBR-SLX9850-4-SFMPNL	Extreme SLX 9850 switch fabric module blank panel for 4-slot chassis

Supported Hardware	Description
XBR-SLX9850-8-SFMPNL	Extreme SLX 9850 switch fabric module blank panel for 8-slot chassis
XBR-SLX9850-PWRPNL	Extreme SLX 9850 power supply blank panel for 4-slot and 8-slot chassis
XBR-SLX9850-IMPNL	Extreme SLX 9850 interface module blank panel for 4-slot and 8-slot chassis
XBR-SLX9850-MMPNL	Extreme SLX 9850 management module blank panel for 4-slot and 8-slot chassis
XBR-SLX9850-4-4PRM-KIT	Extreme SLX 9850 four-post rack mounting kit for 4-slot chassis. Include 27-31" flush and recessed mounting
XBR-SLX9850-4-2PRM-KIT	Extreme SLX 9850 two-post rack mounting kit for 4-slot chassis. Include telco flush and midplane mounting
XBR-SLX9850-8-4PRM-KIT	Extreme SLX 9850 four-post rack mounting kit for 8-slot chassis. Include flush and recessed mounting
XBR-SLX9850-8-2PRM-KIT	Extreme SLX 9850 two-post rack mounting kit for 8-slot chassis. Include telco flush and midplane mounting
BR-SLX-9540-24S-AC-F	Extreme SLX 9540-24S Switch AC with Front to Back airflow. Supports 24x10GE/1GE + 24x1GE ports
BR-SLX-9540-24S-DC-F	Extreme SLX 9540-48S Switch DC with Front to Back airflow. Supports 48x10GE/1GE + 6x100GE/40GE
BR-SLX-9540-24S-AC-R	Extreme SLX 9540-24S Switch AC with Back to Front airflow. Supports 24x10GE/1GE + 24x1GE ports
BR-SLX-9540-24S-DC-R	Extreme SLX 9540-24S Switch DC with Back to Front airflow. Supports 24x10GE/1GE + 24x1GE ports
BR-SLX-9540-48S-AC-F	Extreme SLX 9540-48S Switch AC with Front to Back airflow. Supports 48x10GE/1GE + 6x100GE/40GE
BR-SLX-9540-48S-DC-F	Extreme SLX 9540-48S Switch DC with Front to Back airflow. Supports 48x10GE/1GE + 6x100GE/40GE
BR-SLX-9540-48S-AC-R	Extreme SLX 9540-48S Switch AC with Back to Front airflow. Supports 48x10GE/1GE + 6x100GE/40GE
BR-SLX-9540-48S-DC-R	Extreme 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-P	Advanced Feature License for MPLS, BGP-EVPN, CE2.0, NSX, OptiScale™ Internet Routing (for Extreme SLX 9540-24S and 9540-48S)

Supported power supplies

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

Supported optics

Part Number	Description
1G-SFP-TX	MODULE, MINI-GBIC, TX, 1000BASE, RJ45
1G-SFP-SX-OM	1000BASE-SX SFP OPTIC, MMF LC
1G-SFP-SX-OM-8	1000BASE-SX SFP OPTIC, MMF LC 8
1G-SFP-LX-OM	1000BASE-LX SFP OPTIC, SMF LC
1G-SFP-LX-OM-8	1000BASE-LX SFP OPTIC, SMF LC 8
1G-SFP-LHA-OM	1000BASE-LHA SFP OPTIC, SMF, LC CONN
1G-SFP-BXD	1000BASE-BXD SFP OPTIC SMF
1G-SFP-BXU	1000BASE-BXU SFP OPTIC SMF
10G-SFP-USR	10G USR SFP+ TRANS 100M OVER MMF
10G-SFP-SR	10G SR SFP+ TRANS 300M OVER MMF
10G-SFP-SR-8	10G SR-8 SFP+ TRANS 300M OVER MMF 8
10G-SFP-LR	10G LR SFP+ TRANS 10KM OVER SMF
10G-SFP-LR-8	10G LR SFP+ TRANS 10KM OVER SMF 8
10G-SFP-ER	10G ER SFP+ TRANS 40KM OVER SMF
10G-SFP-ZR	10GBASE-ZR SFP+ optic (LC), for up to 80km over SMF
10GE-SFP-AOC-0701	10GE SFP+ Direct Attach Cables 7m - Active Optical cables
10GE-SFP-AOC-1001	10GE SFP+ Direct Attach Cables 10m - Active Optical cables

Part Number	Description
10G-SFP-TWX-0101	10 GbE SFP+ optics Twinax Active Copper cable: 1m
10G-SFP-TWX-0301	10 GbE SFP+ optics Twinax Active Copper cable: 3m
10G-SFP-TWX-0501	10 GbE SFP+ optics Twinax Active Copper cable: 5m
40G-QSFP-SR4	40G QSFP+ SR4 TRANS 100M OVER MMF
40G-QSFP-SR4-INT	40G QSFP+ 100M OVER MMF 10G BREAKOUT
40G-QSFP-ESR4-INT	40G QSFP+ 300M OVER MMF 10G BREAKOUT
40G-QSFP-LR4	40G QSFP+ LR4 TRANS 10KM OVER SMF
40G-QSFP-QSFP-C-0101	40G QSFP+ TO QSFP+ ACTIVE COPPER 1M
40G-QSFP-QSFP-C-0301	40G QSFP+ TO QSFP+ ACTIVE COPPER 3M
40G-QSFP-QSFP-C-0501	40G QSFP+ TO QSFP+ ACTIVE COPPER 5M
40G-QSFP-QSFP-AOC-1001	40G QSFP+ to QSFP+ ACTIVE OPTICAL CABLE 10M
40G-QSFP-4SFP-C-0101	4X10GE QSFP+TO4SFP+ COPPER BREAKOUT 1M
40G-QSFP-4SFP-C-0301	4X10GE QSFP+TO4SFP+ COPPER BREAKOUT 3M
40G-QSFP-4SFP-C-0501	4X10GE QSFP+TO4SFP+ COPPER BREAKOUT 5M
40G-QSFP-4SFP-AOC-1001	4X10GE QSFP+TO4SFP+ Fiber BREAKOUT 10M
100G-QSFP28-CWDM4-2KM	100GBASE CWDM4 QSFP TRANS LC 2KM OVER SM
100G-QSFP28-SR4	100G QSFP28 SR4 TRANS 100M OVER MMF
100G-QSFP28-LR4L-2KM	100G QSFP28 LR4 LITE TRANS 2KM OVER SMF
100G-QSFP28-LR4-10KM	100G QSFP28 LR4 TRANS 10KM OVER SMF
100G-QSFP28-LR4-LP-10KM	100G QSFP28 LR4 LOWPOWER 2KM OVER SMF
100G-QSFP-QSFP-P-0101	100G QSFP Passive Direct Attach Copper Cable, 1M
100G-QSFP-QSFP-P-0301	100G QSFP Passive Direct Attach Copper Cable, 3M
100G-QSFP-QSFP-P-0501	100G QSFP Passive Direct Attach Copper Cable, 5M
100G-QSFP-QSFP-AOC-1001	100G QSFP Direct Attach Active Optical Cable, 10M
10G-SFPP-USR-E	10GE USR SFP+,HIGH RX SENSITIVITY
10G-SFPP-USR-8-E	10GE USR SFP+,HIGH RX SENSITIVITY (8-pack)
10G-SFP-USR-SA	10GE USR SFP+ OPTIC (LC),RANGE 100M MMF, TAA
10G-SFP-SR-S	10GBASE-SR, SFP+OPTIC(LC), 300M MMF, 70C
10G-SFP-LR-SA	10GBASE-LR, SFP+ OPTIC (LC),10KM OVERSMF, TAA, 70C
10G-SFP-BXU-S	10GE LR SFP+ OPTIC (LC) BIDIRECTIONAL UP
10G-SFP-BXD-S	10GE LR SFP+ OPTIC (LC) BIDIRECTIONAL DO
*Methode SP7051	Methode SP7051-BRCD SFP+ 10G-Base-T (10G speed only)
*Inphi IN-Q2AY2-XX	Inphi 100G QSFP-28 ColorZ DWDM (80km)

*Optics reference qualified and should be purchased from the respective vendors. Extreme doesn't sell these.

Software upgrade and downgrade

Image file names

Download the following images from www.extremenetworks.com.

Image file name	Description
slxos17r.2.01.tar.gz	SLX-OS 17r.2.01 software
slxos17r.2.01_all_mibs.tar.gz	SLX-OS 17r.2.01 MIBS
slxos17r.2.01.md5	SLX-OS 17r.2.01 md5 checksum

Upgrade and downgrade considerations

Steps:

1. Upgrade to SLXOS 17r.1.01a or later releases
2. Save Configuration

   To save the config, run

   > **copy running-config startup-config**

   or

   > **copy running-config <file>**

3. Firmware download with "**fullinstal**l" option from source directory

   ```
   device# firmware download fullinstall ftp user releaseuser password releaseuser file
   release.plist
   ```

   Note: Firmware download with the "fullinstall" option will retain the startup configuration file, and upon the rebooting of the device, it will replay the startup configuration file automatically.

Upgrade/downgrade using netinstall through USB:

- User can perform firmware upgrade/downgrade between SLX-OS 17r.1.x and SLX-OS 17r.2.01 using netinstall through USB.

Upgrade/downgrade using firmware download CLI through USB:

- Upgrade SLX-SLX 17r.1.01a to SLX-OS 17r.2.01 is supported by firmware download CLI with "fullinstall" option, but not support with USB

Instruction to check and upgrade FPGAs/CPLDs:

Refer to the *SLX-OS Upgrade Guide* for all variations on upgrading SLX-OS.

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

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 are not supported when ICL interface is 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

Routing over VPLS
- pw-profile must be configured with tagged mode only under the bridge-domain instance for routing with VPLS

Routing over VPLS (VEoVPLS)

- Supported for static routes only for default and non-default VRF IPv4 and IPv6

Internet Routes Scaling
- It is recommended that the internet routes scaling features be enabled with internet peering configurations, as qualified by Extreme
- Feature is supported with default VRF only; default VRF and non-default VRF should not be co-existing when default VRF is configured with Internet routes scaling feature
- Supported with SLX 9540 and SLX 9850 in this release

L3VPN jumbo limitation
- The IPMTU value configured in CLI is applicable, if outgoing routing interface is an undelay IP interface (VE or L3 port); the IPMTU value configured in CLI is not applicable if the outgoing interface is uplink for IPoMPLS, L3VPN traffic, or ICL for MCT peers

Closed with code changes 17r.2.01

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of **3/15/2018** in 17r.2.01.

Defect ID:	DEFECT000634727		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17s.1.01	**Technology:**	VLAN - Virtual LAN
Symptom:	The command "show ip interface Ve <id>" doesn't display the bridge-domain id that the VE interface is associated with.		
Condition:	1. The user configured a VE (SVI) interface. 2. The user associated that VE to a Bridge-domain. 3. The user issued the command, "show ip interface Ve <id>".		

Defect ID:	DEFECT000643804		
Technical Severity:	High	**Probability:**	Low
Product:	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:	DEFECT000646324		
Technical Severity:	High	**Probability:**	Low
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.1.01	**Technology:**	VLAN - Virtual LAN
Symptom:	Configure a VLAN port but "show vlan" command doesn't display it.		
Condition:	Root cause is not know. The same configuration works on other SLXOS systems.		
Workaround:	System reload.		

Defect ID:	DEFECT000646986		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	In case of routing in BD RAW mode, when tunnel is involved(EVPN-VxLAN, VPLS, MCT), the packet egressing from remote peer will contain 2 vlan tags.		
Condition:	Routing in BD RAW mode on following configurations 1. MCT, 2. EVPN-VxLAN		
Workaround:	Configure BD tag mode		
Recovery:	Configure BD tag mode when routing is involved on MCT, EVPN-VxLAN configs		

Defect ID:	DEFECT000650209		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.1.01	Technology:	Configuration Fundamentals
Symptom:	When an auto MCT interface is used by an LSP that is protected by a bypass that interface cannot be removed when the Auto MCT is unconfigured.		
Condition:	Happens only when an Auto MCT interface supports an FRR LSP that is protected by a bypass.		
Workaround:	Workaround is to 1. Not have any static bypasses protect that interface. 2. Do not use enable-all-interfaces under dynamic-bypass and protect specific interfaces that are MPLS configured.		

Defect ID:	DEFECT000651181		
Technical Severity:	Medium	Probability:	Medium
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.1.01	Technology:	Hardware Monitoring
Symptom:	When 1 PSU goes down, fans are set to faulty and when 2 or more fans are set to faulty, the switch shuts down		
Condition:	When 1 PSU shuts down and Fans are set to faulty.		

Defect ID:	DEFECT000651648		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	Routing over Vxlan-BD is supported only with TAG VC-Mode. Due to a hardware limitation, always a TAG is prepended to the packet after routing over BD. If there is no TAG in incoming packet the BD-ID will get prepended as TAG. The remote end needs to be in TAG VC-mode to remove this extra TAG that gets added. If customer try to enable Routing over a Vxlan-BD unless VC-mode on that BD is set to TAG mode, the Routing enable will not pass.		
Condition:	Routing over Vxlan-BD scenario		
Workaround:	Always use VC-mode on Vxlan-BD to be Tag-mode		
Recovery:	Always use VC-mode on Vxlan-BD to be Tag-mode		

Defect ID:	DEFECT000652712		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.1.01	Technology:	CLI - Command Line Interface
Symptom:	"Show Cluster" CLI for MCT does not provide any output without cluster ID		
Condition:	Default option has been restricted in this release.Need to provide the cluster ID for show command.		

Defect ID:	DEFECT000653081		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	IP over MPLS
Symptom:	In 'show mpls lsp <name> extensive' the output for IP address in some cases reflects an LSP instance number.		
Condition:	User types 'show mpls rsvp lsp <name> extensive' and the lsp has an FRR backup signaled.		

Defect ID:	DEFECT000653692		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	**Technology:**	GRE - Generic Routing Encapsulation
Symptom:	For GRE tunnel, when tunnel destination is explicitly set 0.0.0.0 and removed later, error message is displayed		
Condition:	For GRE tunnel, when tunnel destination is explicitly set 0.0.0.0 and removed later, error message is displayed		
Workaround:	Delete the tunnel and recreate tunnel		

Defect ID:	DEFECT000653817		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	When a peer-group is configured with non-default encapsulation and a neighbor is added to the peer-group and is activated under "address-family l2vpn evpn ". The config under the address family comes with the default encapsulation "mpls" for the neighbor. Even though the peer-group it is part of, is configured with non default encapsulation.		
Condition:	When a peer-group is configured with non-default encapsulation and a neighbor is added to the peer-group and is activated under "address-family l2vpn evpn ". The config under the address family comes with the default encapsulation "mpls" for the neighbor.		
Workaround:	The encapsulation of the neighbor can be changed to match the encapsulation of the peer-group which it is part of. Doing so will change the encapsulation of the neighbor and will carry the same encapsulation as of the peer-group.		
Recovery:	The encapsulation of the neighbor can be changed to match the encapsulation of the peer-group which it is part of. Doing so will change the encapsulation of the neighbor and will carry the same encapsulation as of the peer-group.		

Defect ID:	DEFECT000654354		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	When cluster client is configured on only one peer, the remote client status is displayed as 'Down' instead of 'Undep' for clients with manually configured ESI.		
Condition:	Incomplete cluster client configuration, i.e., configuring the client and deploying it on one peer only		
Workaround:	Keep the client interfaces shutdown until the client configuration is done on both peers		
Recovery:	Configure the client on the other peer and bring the client interface UP		

Defect ID:	DEFECT000654604		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.00	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	User will observe that 8021ag MEP configuration is not removed automatically when logical interface configured on port-channel is unbinded.		
Condition:	User will observe issue only when MEP is bound to a port-channel part of Bridge domain (VLL) .		
Workaround:	Workaround is to delete and add back the MEP once again after binding the Port Channel.		

Defect ID:	DEFECT000654828		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Flooding of traffic is observed for certain CCEP mac on MCT setup.		
Condition:	Timing condition that can be observed after issuing deploy/no-deploy of cluster.		
Recovery:	"clear mac-address-table cluster" can be used to clear the problematic mac.		

Defect ID:	DEFECT000654935		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	show CLI 'show cluster <id> shows peer interface as vlan instead of ve interface.		
Condition:	Show cluster <id> shows peer interface as vlan. Vlan interface should be interpreted as ve interface in show output. This should be considered as a typo in show output.		

Defect ID:	DEFECT000655215		
Technical Severity:	High	Probability:	Low
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VLL - Virtual Leased Line
Symptom:	User may experience below prints on LC console along with Traffic drop for few flooding domain on SLX-9540. ?hslagt_lif_brcm_pgrm_p2p_crossconnect: hslagt_lif_brcm_pgrm_pw_lif_xconnect() failed?		
Condition:	Removal of BD configuration from EVPN and re-add.		

Defect ID:	DEFECT000655276		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	User may experience below messages on console of SLX-9540 router along with Traffic drop for few flooding domains. ?hslagt_lif_brcm_pgrm_p2p_crossconnect: hslagt_lif_brcm_pgrm_pw_lif_xconnect() failed?		
Condition:	Removing BD configuration from EVPN and re-add.		

Defect ID:	DEFECT000655332		
Technical Severity:	High	Probability:	Low
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VLL - Virtual Leased Line
Symptom:	User may experience traffic drop for few flooding domains in VLL MCT.		
Condition:	MCT and VLL configuration		

Defect ID:	DEFECT000656130		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	After removing a range of more than 128 VLANs from EVPN configuration from one MCT peer, there may be multicast and unknown unicast traffic loss on some of the VLANs in that range since the peer does not take over as Designated Forwarder (DF). This may result in OSPF/ARP between the MCT peer and client going into unresolved state		
Condition:	This will happen when the VLAN range is modified on only one of the MCT peers and the range spans more than 128 VLANs.		
Workaround:	Issue can be avoided by 1. Keeping same VLAN range configuration on the two MCT peers 2. Shutting down client port before making EVPN VLAN configuration update 3. Making EVPN VLAN modifications in smaller ranges		
Recovery:	To recover after the issue is seen, configure the VLAN range back on the router where it was removed		

Defect ID:	DEFECT000656169		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	MCT Cluster is UP but CCEP port is down, and Tunnel not detected		
Condition:	After HA failover, some time the CCEP stays down.		
Recovery:	clear bgp evpn neighbor <mct-peer-ip>		

Defect ID:	DEFECT000656215		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	SNMP - Simple Network Management Protocol
Symptom:	dot1qvlancreationtime mib object value displayed is not correct		
Condition:	snmpget on dot1qvlancreationtime mib object.		

Defect ID:	DEFECT000656237		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	Multi-VRF
Symptom:	Leaked Routes are not removed from vrf when nexthop vrf is deleted.		
Condition:	Configure leaked static route. Check route is added to routing table. Delete nexthop vrf		
Workaround:	Do not delete nexthop vrf if leaked routes exist.		
Recovery:	Delete and re-configure static route after vrf is configured		

Defect ID:	DEFECT000656328		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.00	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	User will experience Device reset with 100 Y1731 SLM scheduled sessions over VPLS/VLL with tx-frame-count 250 and a High-Availability failover is triggered along with RSVP configured in the system.		
Condition:	User should have following enabled to observe the issues 8021ag: Enabled Y1731 : configure with 100 or more Y1731 SLM sessions over VPLS/VLL with tx-frame count as 250 or more. RSVP : Enabled Dual MM: yes Device will reset with dot1agd daemon terminated.when High availability switch-over is triggered		
Workaround:	Workaround is to reduce the tx-frame-count of Y1731 SLM sessions to 100 or less to avoid the system reload.		

Defect ID:	DEFECT000656351		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	CLI - Command Line Interface
Symptom:	On a Bridge-domain, routing and pw-profile (if configured in raw mode) configurations should be mutually exclusive.		
Condition:	1. When pw-profile is configured in tagged mode, and has been associated with a Bridge-domain, then routing should not be enabled on the Bridge-domain. 2. When routing is enabled on a Bridge-domain, then a pw-profile with tagged mode should not be associated with the Bridge-domain.		

Defect ID:	DEFECT000656450		
Technical Severity:	High	Probability:	Low
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	Mac address are not displayed in the software table but seen in hardware.		
Condition:	When "no shutdown" command is executed followed by "shutdown" command on a logical interface, macs are not displayed in the "show mac-address" table. Macs are flushed only in software and not flushed from hardware.		
Recovery:	Executing "Shutdown" and "no shutdown" at the interface assocaited to the logical interface clears the issue.		

Defect ID:	DEFECT000656882		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Mac address learning noticed with a delay		
Condition:	In MCT configured setup with 100k traffic streams on, mac address learning is slow due to high number of event processing in the software.		
Recovery:	Mac address learning is recovered automatically after a delay when the events are processed in the software. It can be manually recovered by flapping the mct client interface down and up.		

Defect ID:	DEFECT000656912		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	IPv6 Addressing
Symptom:	Traffic loss may occur		
Condition:	when all the routes coming from certain BGP neighbors are filtered or rejected.		

Defect ID:	DEFECT000657024		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	Egress packets are not getting load balanced due to the default LAG hash hdr-count value is set to 1 instead of 3. Symptoms will be seen as traffic not getting load balanced		
Condition:	User can over come this default setting by configuring the value in the "configuration terminal" -> lag hash hdr-count 3. Using this command, user can change the hdr-count values and can be a work around for the load balancing		

Defect ID:	DEFECT000657070		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Line card reload might be seen during command execution during bootup sequence		
Condition:	Running debug commands during chassis bootup.		

Defect ID:	DEFECT000657201		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	Active MM will go for reload		
Condition:	While bridge-domain is added under EVPN, deleting the bridge-domain will trigger MM reload		
Workaround:	Remove the bridge-domain under EVPN and delete it.		

Defect ID:	DEFECT000657222		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	SNMP - Simple Network Management Protocol
Symptom:	While doing SNMP Walk on IP-MIB:ipAddressTable for VE interfaces, ipAddressType is displayed as broadcast(3) instead of unicast (1)		
Condition:	During SNMP access of IP-MIB:ipAddressTable		

Defect ID:	DEFECT000657360		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Mac address are not synced to mct peer node and evpn mac address are not displayed in the mac address table.		
Condition:	In scaled mct setup with 100k traffic stream, mac address are not synced to the peer mct node when evpn configuration is removed and added back.		
Recovery:	Executing "clear ip bgp neighbor" on the peer mct node refresh the mac address to relearn.		

Defect ID:	DEFECT000657440		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Security
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MAC Port-based Authentication
Symptom:	Command "show port-security address" gets stuck in loop if more than 4096 MACs are learnt on a secure port.		
Condition:	Issue is seen on execution of "show port-security address" command.		

Defect ID:	DEFECT000657442		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	**Technology:**	ARP - Address Resolution Protocol
Symptom:	MAC is not installed.		
Condition:	After performing the MM failover, sometimes MAC route is not installed.		
Recovery:	clear bgp evpn neighbor all		

Defect ID:	DEFECT000657463		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	'show cluster <cluster-id> cliient <client-id> would show a set of VLANs missing from both MCT peers.		
Condition:	Series of EVPN VLAN re-configuration done after the cluster is configured. Multicast and unknown unicast traffic loss on half the VLAN range configured on a particular MCT client. OSPF/ARP configured on these VLANs would be unresolved		
Recovery:	clear bgp evpn neighbor <peer-ip>		

Defect ID:	DEFECT000657476		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	SNMP - Simple Network Management Protocol
Symptom:	User will experience device reset while executing SNMP query on dot1agCfmLtrTable.		
Condition:	User will observe the issue when device is configured with 8021ag, while executing the SNMP query for dot1agCfmLtrTable table within 100 seconds after user has performed CFM Linktrace from source MEP to the target MIP/MEP.		
Workaround:	User should avoid query for dot1agCfmLtrTable		

Defect ID:	DEFECT000657533		
Technical Severity:	High	Probability:	Low
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.00	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	User will experience that while using Y1731 Scheduled Delay measurement sessions, for some of the session the statistics might be displaying incorrect values.		
Condition:	The issue is observed while user is using Y1731 scheduled delay measurement with UP MEP and Psuedowire interfaces are on different Linecards.		
Workaround:	Issue will not be observed if PWE and UP MEP are on same line card.		

Defect ID:	DEFECT000657536		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Daemon imi would terminate.		
Condition:	With 1199 IPv4 and 1199 IPv6 BGP sessions in non-default vrf (user vrf) with no trigger		

Defect ID:	DEFECT000657737		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP/MPLS VPN
Symptom:	vrf route programming could be affected post mpls triggers		
Condition:	vrf route programming could be affected post mpls triggers		

Defect ID:	DEFECT000657773		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	Vxlan tunnel CCEP client local state stayed down sometimes		
Condition:	Vxlan tunnel CCEP client local state stayed down sometime		

Defect ID:	DEFECT000657808		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP/MPLS VPN
Symptom:	traffic for certain VRF could have issues post HA		
Condition:	traffic for certain VRF could have issues post HA		

Defect ID:	DEFECT000657812		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	VLAN - Virtual LAN
Symptom:	LC in reload loop after power cycling LC. due to memory corruption.		
Condition:	LC in reload loop after power cycling LC. due to memory corruption.		
Workaround:	There is no known workaround.		

Defect ID:	DEFECT000657818		
Technical Severity:	High	Probability:	Low
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	ICMP - Internet Control Message Protocol
Symptom:	Configuring 'ip icmp redirect' or "ipv6 icmpv6 redirect" on an interface is not generating ICMP redirect packets, if the system receives a IPv4/IPv6 packet, that requires ICMP redirection.		
Condition:	Failure to generate ICMP and ICMPv6 redirect packets, even if ICMP or ICMPv6 redirection is configured on an interface.		
Workaround:	There is no work around available for this at this point.		
Recovery:	There is no system failures or adverse impact on the system performance due to the ICMP redirect configuration failure.		

Defect ID:	DEFECT000657834		
Technical Severity:	High	Probability:	Low
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	When cluster client is configured on only one peer, the remote client status is displayed as 'Down' instead of 'Undep' for clients with manually configured ESI. This may result in the client interface being elected as Designated Forwarder even before the client is configured on the MCT peer		
Condition:	Incomplete MCT cluster client configuration, i.e., configuring the client and deploying it on one peer only		
Workaround:	To prevent the issue, keep the client interfaces shutdown until the client configuration is done on both peers		
Recovery:	To recover, configure the client on the other peer and bring the client interface UP		

Defect ID:	DEFECT000657888		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	VRRPv2 - Virtual Router Redundancy Protocol Version 2
Symptom:	The ARP daemon may undergo an unusual restart if a large number of packets are queued for processing		
Condition:	Running VRRPE		

Defect ID:	DEFECT000657921		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	MPLS
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MPLS VPLS - Virtual Private LAN Services
Symptom:	Mac address is not learned in the software mac address table but learned in the hardware		
Condition:	When bridge domain configuration is deleted and added immediately back to back, mac address are not removed hardware and not re-learned int he software.		
Workaround:	When bride domain configuration is removed , re-add the configuration after few seconds of delay.		
Recovery:	Delete the bridge domain configuration again add it after few seconds of delay		

Defect ID:	DEFECT000657958		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	Tunnel destination IP displayed in the "sh mac" output is not after HA failover.		
Condition:	Tunnel destination IP displayed in the "sh mac" output is not after HA failover.		

Defect ID:	DEFECT000657981		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	After removing and reading the EVPN, DF election for Vxlan CCEP client are not correct which results in traffic issue for unknown unicast traffic		
Condition:	After removing and reading the EVPN, DF election for Vxlan CCEP client are not correct which results in traffic issue for unknown unicast traffic		

Defect ID:	DEFECT000657989		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	When 4K BDs are extended and BGP EVPN Address family is removed and re-added, tunnel delete and recreate is triggered. l2sys process termination is seen,		
Condition:	When 4K BDs are extended and BGP EVPN Address family is removed and re-added, tunnel delete and recreate is triggered. l2sys process termination is seen,		

Defect ID:	DEFECT000658022		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	CLI - Command Line Interface
Symptom:	UDA Access List rule values will be displayed without the preceding zeros in output of show commands.		
Condition:	Defect is seen when user displays operational/statistical data for UDA Access Lists		

Defect ID:	DEFECT000658029		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	Change in IP MTU does not affect LDP PDU advertised in LDP init message		
Condition:	User has LDP enabled MPLS interfaces.		

Defect ID:	DEFECT000658042		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	VPLS Traffic drop observed		
Condition:	When VPLS peer load balanced with multiple LSPs/path, traffic drop will seen rarely when continuously flapping two different paths.		
Workaround:	"clear mpls lsp all" will recover from this issue.		

Defect ID:	DEFECT000658055		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	After HA failover with MCT configuration, the remote state of clients with auto ESI configuration are not synchronized. The ESI values of the same client appear different on the two MCT peers		
Condition:	Issue is seen after HA failover on one MCT peer with auto ESI clients in deployed state		
Workaround:	Ways to avoid the issue is to un-deploy clients with auto ESI on both peers before HA failover and re-deploy them after failover		
Recovery:	Perform client 'no deploy' followed by 'deploy'		

Defect ID:	DEFECT000658058		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	'show ip ospf neighbors' shows OSPF to be in INIT state		
Condition:	High EVPN VLAN range and HA failover with EVPN and cluster configuration. ARP and OSPF remains unresolved for VEs over some of the EVPN VLANs after HA failover.		
Recovery:	clear ip bgp neighbors <peer-ip>		

Defect ID:	DEFECT000658143		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Route profile is not disabled after system reload		
Condition:	The user might see the discrepancy when the command is successful but the database is not updated		
Workaround:	It is minimal impact and there is workaround. Users can do "copy running-config to satrtup-config" insteadd off copying to flash and reload the system.		

Defect ID:	DEFECT000658161		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Duplicate forwarding may be seen on certain MCT client interfaces using LACP port-channel to connect to the ethernet segment		
Condition:	Issue may be seen after cluster no deploy/deploy on L2 clients using LACP port-channel		
Workaround:	1. Shutting down client interface using LACP configuration before performing no deploy/deploy of the cluster 2. Using 'client-interface-shutdown' configuration on the cluster before 'no deploy' on the cluster		
Recovery:	To recover from the issue, remove and recreate the VLAN where the double forwarding is seen		

Defect ID:	DEFECT000658167		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	L3VPN routes are not installed after HA failover when BGP GR is enabled		
Condition:	After HA-failover with BGP GR enabled in Address Family IPv4 unicast		
Workaround:	Disable BGP GR in Address Family IPv4 unicast		
Recovery:	clear bgp neighbor		

Defect ID:	DEFECT000658169		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Router or Line card reset after performing multiple operations like cluster deploy/no deploy, no cluster and cluster re-configuration, clear mpls lsp all.		
Condition:	Seen on setups with more than 3K VLANs, 40+ clients and several L3 routes after triggers like cluster deploy/no deploy, no cluster and cluster re-configuration, clear mpls lsp all, keeping all client interfaces in UP state		
Workaround:	To avoid seeing the issue, reduce EVPN VLAN scale before performing disruptive cluster operations like deploy/no deploy, cluster reconfiguration, clear mpls lsp etc		

Defect ID:	DEFECT000658223		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	MCT client status is down.		
Condition:	When EVPN instance is delete and re-configured.		
Recovery:	clear bgp evpn neighbor <MCT-PEER>		

Defect ID:	DEFECT000658271		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Customer experiences reboot.		
Condition:	If MCT cluster configuration is done on a dual MM F4 chassis, MCDS management cluster will form. After this if HA failover happens, then on the new active you might experience this issue (of reboot).		
Workaround:	Delete /etc/fabos/Mcdsd/Mcdsd.cfg and reboot to recover from this state.		

Defect ID:	DEFECT000658887		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.01	Technology:	CLI - Command Line Interface
Symptom:	Firmware download through RESTAPI/RESTCONF will not work in releases < SLXOS17r.2.01		
Condition:	Firmware download through RESTAPI/RESTCONF		
Recovery:	Please use firmware SLXOS17r.2.01		

Defect ID:	DEFECT000659414		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.01	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	For a load-balanced VPLS PWs, traffic will get egress only through limited lsp/paths even though it is load balanced with multiple lsps/tunnels.		
Condition:	flap/shut-down two LSP paths back to back will intermittently trigger this issue		
Recovery:	Clearing all/problematic mpls lsps will recover the issue. clear mpls lsp all clear mpls lsp name <problematic lsp name>		

Defect ID:	DEFECT000659518		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	IP over MPLS
Symptom:	MPLS process restarted		
Condition:	LDP session with another peer has gone down.		

Defect ID:	DEFECT000659555		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	Bridge Domain doesn?t learn MAC from remote peer after reload		
Condition:	If the bulk download of the LIFs configured is in multiple chunks and last download has the last LIF from AC LIF, then BD VIF LIF download fails		
Recovery:	Reconfigure Bridge Domain peers		

Defect ID:	DEFECT000659648		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Traffic Management
Reported In Release:	SLXOS 17r.1.01	Technology:	Rate Limiting and Shaping
Symptom:	Device will go for unexpected reload when the "show storm-control broadcast" command is executed.		
Condition:	Interface should have co-existence of both service-policy and storm-control for BUM.		
Workaround:	"show storm-control" CLI will display the details of all configured storm-control policers. .		

Defect ID:	DEFECT000659681		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.1.01	Technology:	IP Addressing
Symptom:	Unexpected logical interface config errors were seen		
Condition:	Interface port-channel is deleted from configuration before its logical interfaces are removed from bridge-domain configurations		
Workaround:	Remove all associated logical interfaces under a port channel, before deleting a port-channel		

Defect ID:	DEFECT000659853		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Traffic is duplicated and sent on wrong Pseudo wire for some MCT nodes		
Condition:	User has issued a high availability MM failover command.		

Defect ID:	DEFECT000659987		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	VRRPE MACs are displayed wrongly as EVPN static.		
Condition:	Removal and addition of cluster configuration.		

Defect ID:	DEFECT000659988		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	IP Addressing
Symptom:	RACL doesn't work in when using profile route-enhance hw_opt		
Condition:	RACL doesn't work in when using profile route-enhance hw_opt		

Defect ID:	DEFECT000660196		
Technical Severity:	Critical	Probability:	High
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.01	Technology:	sFlow
Symptom:	sFlow collector IPv4 address configuration in 23.x.x.x range are rejected with the error "Given IP is Invalid for Sflow collector".		
Condition:	The issue occurs since there was an error in deciding if it's a multicast address (224.x.x.x. through 239.x.x.x). Note that, multicast addresses can not be used as sFlow collector address.		

Defect ID:	DEFECT000660243		
Technical Severity:	High	**Probability:**	Medium
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.01	**Technology:**	OSPF - IPv4 Open Shortest Path First
Symptom:	Default TPID of 8100 was used in L3 packets being sent out of VE interfaces are using instead of the configured tag-type 9200.		
Condition:	When a non-default tpid is configured.		
Recovery:	Removing and re-configuring the configured tag-type again		

Defect ID:	DEFECT000660555		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.1.01	**Technology:**	VLAN - Virtual LAN
Symptom:	Internal CMSH debug command "hslagt lif trace start-tracing" did not restart tracing after it's stopped.		
Condition:	After "hslagt lif trace start-tracing" was stopped, it could not be restarted.		

Defect ID:	DEFECT000660636		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Traffic loss is being observed.		
Condition:	High availability fail-over of MM module.		

Closed without code changes 17r.2.01

This section lists software defects with Critical, High, and Medium Technical Severity closed without a code change as of **3/15/2018** in 17r.2.01.

Defect ID:	DEFECT000616456	**Technical Severity:**	Medium
Reason Code:	Design Limitation	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	**Technology:**	ARP - Address Resolution Protocol
Symptom:	Customer will see an extra MAC learnt on tunnel with wrong Vlan and Interface. The extra MAC is the MAC belonging to the remote Router Port Interface, which comes to the local node as the outer header L2 hdr SA-MAC. This would happen only when the customer has a static-Vxlan Tunnel configured using a router-port underlay. Issue seen when: 1. Have a Static Vxlan tunnel. 2. Use router port for underlay. Issue not seen in: 1. If underlay is VE and static-Vxlan, issue not seen. 2. If EVPN-Vxlan tunnel issue won't be seen.		
Condition:	Issue seen only when the customer has a static-Vxlan Tunnel configured using a router-port underlay.		

Defect ID:	DEFECT000633316	**Technical Severity:**	High
Reason Code:	Not Reproducible	**Probability:**	High
Product:	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 furthur away from receiver.		
Workaround:	RP should be between source and receiver.		
Recovery:	clear the mcache using clear command.		

Defect ID:	DEFECT000636674	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Medium
Product:	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:	DEFECT000638200	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Medium
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.1.01	Technology:	OSPF - IPv4 Open Shortest Path First
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?. The goal is to have an unchanged router ID with an explicit configuration or using loopback which is also expected not to be removed.		
Condition:	This issue will be seen if the MCT Cluster peer address is not matching with the BGP router-id.		

Defect ID:	DEFECT000640885	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Low
Product:	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:	DEFECT000643758	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Low
Product:	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:	DEFECT000649356	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.1.01	Technology:	IPv6 Addressing
Symptom:	HA : ipv6 nd router preference goes to default value after HA even though non-default value is configured		
Condition:	Doing HA with non default ipv6 nd router preference		

Defect ID:	DEFECT000653955	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.1.01	Technology:	MPLS Traffic Engineering
Symptom:	User may see MPLS traffic drop when HA fail-over is executed.		
Condition:	MPLS with RSVP configuration and HA fail-over is performed(High availability)		

Defect ID:	DEFECT000653998	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Medium
Product:	SLX-OS	Technology Group:	IP Multicast
Reported In Release:	SLXOS 17r.2.00	Technology:	PIM - Protocol-Independent Multicast
Symptom:	Customer can see console logs on line card like "hslagt_mcast_brcm_add_fec_entry: Error in bcm_l3_egress_create rc: -7, bcm_errmsg: Entry not found".		
Condition:	When PIM OIF interfaces are getting added to multicast cache there are chances to notice these logs.		
Recovery:	Recovery is not needed since there should not be any traffic issues with these logs.		

Defect ID:	DEFECT000655324	Technical Severity:	Medium
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	After a failover to the backup MM, there is the remote possibility that the NSM process will fail..		
Condition:	The configuration that is resulting in the NSM process failing after failover to the backup MM has not been identified yet.		

Defect ID:	DEFECT000656251	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	when evpn instance is deleted there could be issues with management cluster		
Condition:	when evpn instance is deleted there could be issues with management cluster		

Defect ID:	DEFECT000656254	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	When evpn instance is deleted management Cluster may not form		
Condition:	When evpn instance is deleted management Cluster may not form		

Defect ID:	DEFECT000656408	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Medium
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	OSPF - IPv4 Open Shortest Path First
Symptom:	OSPF sessions flap when sending traffic at 30% line rate		
Condition:	issue happens only in scaled setup with 2048 sessions		

Defect ID:	DEFECT000656577	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP4+ - IPv6 Border Gateway Protocol
Symptom:	System would respond slow in displaying BGP show commands		
Condition:	The system has 346 BGP sessions UP and learns 9M RIB-IN routes from 128 RIB-IN neighbors		

Defect ID:	DEFECT000656895	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Medium
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	lsp may not come up after ha failover		
Condition:	lsp may not come up after ha failover when having more than 100 lsp and 200 bd		

Defect ID:	DEFECT000656930	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Medium
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	Static Routing (IPv4)
Symptom:	System reload might be seen when new IP is configured to overwrite duplicate IP previously configured on management interface		
Condition:	Overwriting duplicate IP previously configured on management interface		

Defect ID:	DEFECT000656960	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Daemon bgpd would terminate .		
Condition:	The system has 256K unique routes with 34 BGP RIB-IN neighbors. 256K routes are learned from each RIB-IN neighbor making a total RIB-IN of 9M. 256K unique routes are advertised to 54 RIB-OUT neighbors (256K * 54 = 14M RIB-OUT in total).		

Defect ID:	DEFECT000656978	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	With "clear ip bgp neighbor all" BGP takes additional time to re-establish		
Condition:	There are 2400 BGP sessions configured with 9M RIB-IN routes in total and 14M RIB-OUT routes in total.		

Defect ID:	DEFECT000657194	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Low
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.00	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	During the collection of SupportSave information, there is the remote possibility that the IMI process will fail.		
Condition:	The configuration that is resulting in the IMI process failing during SupportSave collection has not been identified yet.		

Defect ID:	DEFECT000657294	Technical Severity:	Medium
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	xSTP - Spanning Tree Protocols
Symptom:	System can terminate on Line Card when node is rebooting with 4k VLAN config.		
Condition:	LIne card system terminates when default config is copied to startup.		
Workaround:	No known workaround.		

Defect ID:	DEFECT000657363	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	xSTP - Spanning Tree Protocols
Symptom:	User would observe system termination and switch reboot.		
Condition:	Perform High Availability fail-over for multiple times repeatedly using script.		
Workaround:	Unlikely to see on customer setup.		

Defect ID:	DEFECT000657404	Technical Severity:	High
Reason Code:	Design Limitation	Probability:	Medium
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.00	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	For the below rest queries, "/rest/operational-state/cfm-state/cfm-detail" "/rest/operational-state/cfm-state/cfm-connectivity", If there are multiple domains configured, rest output will show only the first configured domain and will skip the remaining domains.		
Condition:	User will observe the issue only while executing specific REST queries with 8021ag where multiple domains are configured.		

Defect ID:	DEFECT000657531	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	VPLS/MPLS traffic drop at transit node		
Condition:	In MPLS network with high scale of LSPs and ip routes, HA failover of Egress PE will rarely cause this issue		
Recovery:	clear RSVP sessions will recover from the issue.		

Defect ID:	DEFECT000657645	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	ARP - Address Resolution Protocol
Symptom:	With Scaled ARP scenario if we remove/add Anycast IP, there could be ARP daemon termination.		
Condition:	With Scaled ARP scenario if we remove/add Anycast IP, there could be ARP daemon termination.		

Defect ID:	DEFECT000657919	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Vxlan Tunnel is not created.		
Condition:	With manual RD/RT per VLAN, EVPN instance deleted and re-configured.		
Recovery:	"clear bgp epvn neighor all"		

Defect ID:	DEFECT000657971	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	High Availability
Symptom:	NSM terminating with EVPN config on standby MM after MM failover.		
Condition:	Issue is seen when switch is loaded with EVPN config and HA failover is executed. Issue is not consistent.		

Defect ID:	DEFECT000658026	Technical Severity:	High
Reason Code:	Will Not Fix	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	Ping may not work for Inband-managment using VEoVPLS under conditions of internet route scale		
Condition:	Running internet route scale when box is operating at capacity threshold		

Defect ID:	DEFECT000658057	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Medium
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	High Availability
Symptom:	After the Standby MM becomes the Active MM, it is possible for NSM on the new Active MM to initially be so busy that it cannot handle all requests from the NSM clients in a timely manner. This could result in the NSM client failing while it is waiting for NSM to process its request. This would only happen on systems with huge configurations.		
Condition:	The configuration that would result in the failing of the NSM client has not been identified yet.		

Defect ID:	DEFECT000658163	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	High Availability
Symptom:	Component state changes are not synced to linecards after HA failover.		
Condition:	Issue was seen after issuing a HA failover.		
Recovery:	Reboot the linecard.		

Defect ID:	DEFECT000658401	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Medium
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	Configuration Fundamentals
Symptom:	Dcmd process terminates when the "format RFC-5424" command is added to the "logging syslog-server..." configuration.		
Condition:	Dcmd process terminates when the "format RFC-5424" command is added to the "logging syslog-server..." configuration.		
Workaround:	No workaround.		

Defect ID:	DEFECT000658585	Technical Severity:	High
Reason Code:	Will Not Fix	Probability:	Medium
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	Configuration Fundamentals
Symptom:	After system boots up.		
Condition:	After system boots up.		
Workaround:	1) Copy flash://startup-config flash://temp-startup-config 2) Copy flash://temp-startup-config startup-config 3) reload		

Known issues 17r.2.01

This section lists open software defects with Critical, High, and Medium Technical Severity as of **3/15/2018** in 17r.2.01.

Defect ID:	DEFECT000627194		
Technical Severity:	High	**Probability:**	Medium
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17s.1.00	**Technology:**	Configuration Fundamentals
Symptom:	Switch terminates while executing REST requests		
Condition:	This happens in a stressed out environment where the switch is pounded with the REST requests from multiple sources simultaneously for a long time.		

Defect ID:	DEFECT000635924		
Technical Severity:	High	**Probability:**	Medium
Product:	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:	DEFECT000639016		
Technical Severity:	High	**Probability:**	Low
Product:	SLX-OS	**Technology Group:**	IP Multicast
Reported In Release:	SLXOS 17r.1.01	**Technology:**	PIM - Protocol-Independent Multicast
Symptom:	With More then 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 then 20k mache entries.		

Defect ID:	DEFECT000639074		
Technical Severity:	High	**Probability:**	High
Product:	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:	DEFECT000639584		
Technical Severity:	High	**Probability:**	Low
Product:	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 upto 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:	DEFECT000639931		
Technical Severity:	High	**Probability:**	Low
Product:	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:	DEFECT000640960		
Technical Severity:	Medium	Probability:	Low
Product:	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:	DEFECT000643918		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	IP Multicast
Reported In Release:	SLXOS 17r.1.01	Technology:	IPv4 Multicast Routing
Symptom:	Traffic loss for the SG entries which are not registered with any cast RP,		
Condition:	This issue happens when we have mixed topology with RP and anycast RP in the same domain.		
Workaround:	configure all the nodes with anycast RP this issue will not be seen.		

Defect ID:	DEFECT000643957		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17s.1.01	Technology:	Static Routing (IPv4)
Symptom:	Due to software defect, User can configure system MAC as Static Anycast Gateway MAC		
Condition:	user will be observe this issue with Static Anycast Gateway MAC feature for IPFabric		

Defect ID:	DEFECT000644556		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.2.00	**Technology:**	Configuration Fundamentals
Symptom:	During MM failover, while the standby MM becomes active, process L2sysd may be terminated and restarted.		
Condition:	The issue may happen with MCT VPN scaling configuration.		
Recovery:	After process L2sysd is restarted, the system will work fine.		

Defect ID:	DEFECT000645924		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MBGP - Multiprotocol Border Gateway Protocol
Symptom:	Total number of BGP EVPN Routes includes valid routes and filtered routes		
Condition:	BGP EVPN routes are filtered with mismatch Route Target.		

Defect ID:	DEFECT000648772		
Technical Severity:	High	**Probability:**	Low
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.1.01	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Jumbo frames are not supported in BGP		
Condition:	Running BGP with jumbo frame configuration		

Defect ID:	DEFECT000649765		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	LAG - Link Aggregation Group
Symptom:	During reload with LAG configuration, some unnecessary logs are coming on console. There is no impact on functionality.		
Condition:	Logs comes during reload with LAG configuration.		
Workaround:	No workaround		
Recovery:	No impact on functionality		

Defect ID:	DEFECT000650830		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.1.01	**Technology:**	SNMP - Simple Network Management Protocol
Symptom:	Appears to be no method to clear SNMP statistics and no config option to allow "clear counters all" to clear SNMP stats or not (like the NI "snmp-server preserve-statistics" command)		
Condition:	snmpget/snmpwalk on ifMIB objects representing interface statistics.		

Defect ID:	DEFECT000650998		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.2.00	**Technology:**	Configuration Fundamentals
Symptom:	User will experience MEP timeout in a highly scaled setup, With more than 7000 MEPs configured over VLL.		
Condition:	User will observe the issue if user has configured more than 7000 MEPs on both ends of the VLL service.		
Workaround:	User can spread the session acorss multiple Line cards in such scale scenarios.		

Defect ID:	DEFECT000651257		
Technical Severity:	High	**Probability:**	Low
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.2.00	**Technology:**	LLDP - Link Layer Discovery Protocol
Symptom:	Setting clock backwards using SLXCLI "clock set" will cause SDK linkscan to stop polling links. If a port is enabled after this clock set, the link will not come up. Links already up will not be affected. Also, setting clock forward doesn't have this issue.		
Condition:	Setting clock backward will introduce this issue.		
Workaround:	1. Setting clock forward to the original date/time will recover the SDK linkscan and bring up the link. Or 2. more cleanly, reload the system after setting clock backwards.		
Recovery:	Reload the system.		

Defect ID:	DEFECT000651543		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.1.01	**Technology:**	ARP - Address Resolution Protocol
Symptom:	mpls tunnels could be programmed as DOWN in LC after multiple HA failovers		
Condition:	mpls tunnels could be programmed as DOWN in LC after multiple HA failovers		

Defect ID:	DEFECT000651575		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	BFD over BGP with 200,200,5 timers flap randomly without any triggers		
Condition:	Under highly scaled environment, Multihop BFD sessions can get unstable.		
Workaround:	Use of fewer BFD sessions		
Recovery:	System should auto correct		

Defect ID:	DEFECT000651851		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.1.01	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	Single hop BFD sessions flap on switching to multislot with 200ms timer		
Condition:	When BFD sessions are over multi-slot LAG interfaces with several members links, then change of topology can cause BFD sessions to flap.		
Workaround:	Keep the number of member links of the LAG less than 6-8		
Recovery:	Once flapped, session should come back online by itself.		

Defect ID:	DEFECT000652176		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	VLAN - Virtual LAN
Symptom:	Happens while creating large number of VLAN.		
Condition:	It is by design, when we create multiple VLAN, we create them in batch, hence we get more than one syslogs. hostname comes when creating/deleting vlan only, no impacts due to this defect		

Defect ID:	DEFECT000652589		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Firmwaredownload might fail		
Condition:	When HA state is not in sync and firmwaredowload is triggered then firmwaredownload might fail.		

Defect ID:	DEFECT000652789		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	**Technology:**	ARP - Address Resolution Protocol
Symptom:	"show ip arp suppression-cache" has invalid port number for the entries which were learnt locally		
Condition:	Issue would be hitting after HA, and only for the locally learnt entries		
Workaround:	"show ip arp" which also displays the local entries will have proper output		

Defect ID:	DEFECT000652954		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Monitoring
Reported In Release:	SLXOS 17r.2.00	**Technology:**	Syslog
Symptom:	Date format in ACL logging is not correct.		
Condition:	When ACL is enabled with logging and 'show access-list-log buffer' is issued.		

Defect ID:	DEFECT000653068		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Mac is shown as learnt on CCL though the underlying interface is down. CLI command : "show mac-address vlan <number>"		
Condition:	A VXLAN tunnel is configured for the vlans and an underlying port-channel is shut.		
Recovery:	"clear mac-address-table cluster" will clear the mac.		

Defect ID:	DEFECT000653500		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.1.01	**Technology:**	Configuration Fundamentals
Symptom:	During copy support, the following message may be seen, "ls: cannot access /var/log/brocade/kmem/kmem_*: No such file or directory"		
Condition:	During copy support, in some rare scenario, this message may be displayed.		
Workaround:	none is needed.		
Recovery:	none is needed.		

Defect ID:	DEFECT000653531		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	MPLS
Reported In Release:	SLXOS 17r.1.01	**Technology:**	MPLS VPLS - Virtual Private LAN Services
Symptom:	The VPLS MACs are not removed from the MAC table		
Condition:	When trafiic is stopped after HA failover in scaled setup, VPLS MACs are not aging out.		
Recovery:	Executing "clear mac dynamic" cli command will remove the MACs.		

Defect ID:	DEFECT000653738		
Technical Severity:	High	**Probability:**	Low
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	port-channel is up even though different cluster id is configured on both mct nodes.		
Condition:	configuring different cluster id at both mct nodes		

Defect ID:	DEFECT000653739		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	User would observe MCT Client LAG interface goes online state on SLX switch which connected to MLX switch.		
Condition:	SLX switch configured with MCT Client LAG Interface with different client ID both MCT peer switches. Note: LACP protocol on MCT LAG interface.		
Workaround:	It is negative test case. User not suppose to configure different client-id on both MCT peer nodes. Keep same client-id for MCT Client LAG inteface on both MCT peer nodes		

Defect ID:	DEFECT000653831		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Monitoring
Reported In Release:	SLXOS 17r.2.00	**Technology:**	Syslog
Symptom:	Structured data element attr is not consistent between AUDIT and RASLOG messages.		
Condition:	In the syslog messages, the structured data element "attr" is not consistent between AUDIT and RASLOG messages.		
Recovery:	Cosmetic issue, no recovery is needed.		

Defect ID:	DEFECT000653869		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	VLAN - Virtual LAN
Symptom:	The command "show bridge-domain <id> logical-interface" will show more information than is required for some field.		
Condition:	The FLAG value in the o/p is greater than 0x7, in the output of the command, "show bridge-domain <id> logical-interface".		

Defect ID:	DEFECT000653893		
Technical Severity:	High	**Probability:**	Medium
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Unlikely unexpected reload of switch due to termination of vrrpd when switch is reloaded with VRRPE config		
Condition:	Termination of vrrpd can happen under unlikely scenarios when VRRPE configuration is present on the switch and switch is reloaded.		

Defect ID:	DEFECT000653929		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.2.00	**Technology:**	CLI - Command Line Interface
Symptom:	BGP operational commands from NETCONF are not available.		

Defect ID:	DEFECT000654324		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	MPLS
Reported In Release:	SLXOS 17r.1.01	**Technology:**	MPLS VPLS - Virtual Private LAN Services
Symptom:	User may experience traffic drop if all MPLS interface go for flap in Layer 2 VPN MCT case.		
Condition:	All MPLS interfaces flaps		
Recovery:	Re-apply Layer 2 2VPN MCT. configuration		

Defect ID:	DEFECT000654558		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	**Technology:**	IP Addressing
Symptom:	Ping not going through a TRANSIT node on a VE bounce with proxy-arp enabled and protocol applications (MULTICAST) running.		
Condition:	Running proxy arp under conditions of scale with triggers		

Defect ID:	DEFECT000654559		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	LAG - Link Aggregation Group
Symptom:	ARP is not being resolved		
Condition:	A LAG has a single interface and the router is reloaded		
Recovery:	Remove the lag and using the physical interface as a stand alone interface, as LAG has a single port.		

Defect ID:	DEFECT000654610		
Technical Severity:	Medium	Probability:	Low
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.1.01	Technology:	MPLS VLL - Virtual Leased Line
Symptom:	VPLS PW will not come operational due to vc-mode mismatch		
Condition:	When SLX peering with MLX for VLL tunnel and if the vc-mode configured as raw-pass through mode, the PW will not come oprtational if the AC interface on MLX is configured as tagged interface.		
Workaround:	AC interface on the MLX should configured as untagged interface for the PW to be operational		

Defect ID:	DEFECT000654842		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	Traffic loss is observed.		
Condition:	Mac is moved from CCEP to LVTEP remote site.		

Defect ID:	DEFECT000654902		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	Following will not work. 1) L3 protocols over MCT will not come up. 2) CFM 3) Logical vtep bum traffic 4) ELD protocol		
Condition:	Following features are not supported if the tcam profile set to "Layer-2 optimized" 1) L3 protocols over MCT will not come up. 2) CFM 3) Logical vtep bum traffic 4) ELD protocol		
Workaround:	Tcam profile should be set to default profile.		

Defect ID:	DEFECT000655079		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	Certain Filtering options with command - 'show mac-address mdb' like 'show mac-address mdb client <id>' or 'show mac-address mdb bridge-domain <id>' do not display the expected result		
Condition:	Always seen for these commands.		
Workaround:	Alternate commands such as 'show mac-address client <id> or 'show mac-address bridge-domain <id>' can be used		

Defect ID:	DEFECT000655147		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	IP Multicast
Reported In Release:	SLXOS 17r.2.00	**Technology:**	IGMP - Internet Group Management Protocol
Symptom:	Multicast information for Bridge Domain is not shown in the REST output.		
Condition:	Multicast information for Bridge Domain is not available when REST is used.		

Defect ID:	DEFECT000655195		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	xSTP - Spanning Tree Protocols
Symptom:	After removing the port-channel, Show command still has the port-channel ID displayed		
Condition:	Not an function impact nor getting reproduced easily		

Defect ID:	DEFECT000655266		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	After cluster split/join, there is a possibility of VXLAN tunnels having inconsistent tunnel id (for a given tunnel destination) across the 2 nodes of the cluster.		
Condition:	Cluster split/join.		
Workaround:	Deletion and recreation of the overlay-gateway		

Defect ID:	DEFECT000655278		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Vxlan Tunnels take longer time to come up.		
Condition:	When VLAN-VNI mapping is deleted and re-configured.		
Recovery:	clear bgp epvn neighbor soft <i n | out>		

Defect ID:	DEFECT000655803		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.00	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	User will experience usability issue where Y1731 SLM/DM session will not start when the bridge domain(VPLS/VLL) configuration is changed to peer load-balance.		
Condition:	User will observe issue while using Y1731 with Bridge domain(VPLS/VLL), followed by change in bridge domain configuration.		
Workaround:	Workaround is to delete and add back the MEP on A/C LIF so as to make CFM learn the Remote MEP on the updated PW LIF.		

Defect ID:	DEFECT000655853		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.00	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	User will observe usability issue where Y1731 DM/SLM session will not start when peer config is assigned with lsp in bridge-domain(VPLS/VLL).		
Condition:	User will observe this issue while using 8021ag/Y1731 DM/SLM sessions with VPLS/VLL Bridge domain		
Workaround:	Workaround is to delete and add back the MEP on A/C LIF so as to make 8021ag learn the Remote MEP on the updated Pseudowire LIF.		

Defect ID:	DEFECT000655952		
Technical Severity:	Medium	**Probability:**	Medium
Product:	SLX-OS	**Technology Group:**	Monitoring
Reported In Release:	SLXOS 17r.1.01	**Technology:**	Hardware Monitoring
Symptom:	Connected port showup as "Link up"		
Condition:	On a SLX9540, ethernet cable is unplugged or detached with a copper type SFP on port.		

Defect ID:	DEFECT000656016		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.1.01	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Daemon bgpd would terminate and restart on HA even with BGP process restart configured		
Condition:	Significant routing configuration changes are made to observe the problem		

Defect ID:	DEFECT000656127		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	Tunnel down syslog message is not observed on syslog server.		
Condition:	Unconfiguring Auto Route distinguisher configuration with cli command "rd auto" .		

Defect ID:	DEFECT000656206		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Security
Reported In Release:	SLXOS 17r.2.00	**Technology:**	Security Vulnerability
Symptom:	Nmap tool found unknown tcp open ports that are vulnerable to attack from mgmt interface.		
Condition:	Unknown tcp open ports can be seen when Nmap tool is run on the device.		

Defect ID:	DEFECT000656211		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	SNMP - Simple Network Management Protocol
Symptom:	Dot1qvlancurrentegressports and Dot1qvlancurrentuntaggedports mib object values are not populated under Q-Bridge root@ubuntu14-237-4:~# root@ubuntu14-237-4:~# snmpwalk -v 2C -c cm2 10.20.100.25 1.3.6.1.2.1.17.7.1.4.2.1.4 -t 5iso.3.6.1.2.1.17.7.1.4.2.1.4 = No Such Instance currently exists at this OIDroot@ubuntu14-237-4:~#		
Condition:	snmpwalk/snmpget on Dot1qvlancurrentegressports and Dot1qvlancurrentuntaggedports		

Defect ID:	DEFECT000656253		
Technical Severity:	Medium	Probability:	Medium
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.1.01	Technology:	Hardware Monitoring
Symptom:	In the output of RPC get-media-detail for breakout interface the value of rx-power field is wrongly displayed as 0.		
Condition:	Issue is seen on execution of get-media-detail RPC for breakout interface.		
Workaround:	Correct value of the field can be checked by using command "show media interface ethernet <interface-name>".		

Defect ID:	DEFECT000656319		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	LAG - Link Aggregation Group
Symptom:	Running configuration not cleaned properly once we switch the hardware profile.		
Condition:	Not impact for the issue, as the backend is cleaned properly and works as expected, only when HW profile change happens.		

Defect ID:	DEFECT000656360		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Security
Reported In Release:	SLXOS 17r.2.00	Technology:	ACLs - Access Control Lists
Symptom:	For "mac access-list" rules, providing 'count' option only works if provided before 'copy-sflow', 'mirror' and 'log' option.		
Condition:	Occurs when configuring rules under mac access list		
Workaround:	Wrorkaound is to provide 'count' option before 'copy-sflow', 'mirror' and 'log' options.		

Defect ID:	DEFECT000656392		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	CLI - Command Line Interface
Symptom:	Netconf session gets closed when sending the request to get the chassis details.		
Condition:	Netconf command to get the chassis details is issued		
Workaround:	Avoid using the netconf command to get the chassis details.		

Defect ID:	DEFECT000656825		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	OSPF - IPv4 Open Shortest Path First
Symptom:	OSPF adjacency flaps after configuring OSPF area range & OSPF summary-address in 100k routes scale scenario		
Condition:	OSPF adjacency is FULL with 50k Intra Area routes and 50k external routes		

Defect ID:	DEFECT000656979		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	NTP - Network Time Protocol
Symptom:	In this release, 'ntp disable all' configuration command is not available. It will be added in a later release.		
Condition:	If NTP has to be configured, then it earlier disable command is not available.		

Defect ID:	DEFECT000656999		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	CLI - Command Line Interface
Symptom:	User may observe that IS-IS utilizes 2.5% of system memory		
Condition:	User may observe this when IS-IS process comes up		

Defect ID:	DEFECT000657033		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	Licensing
Symptom:	Memory leak observed while license is being added to the system.		

Defect ID:	DEFECT000657071		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	Ping was not functional between 2 loopback addresses after interface flap.		
Condition:	IP enabled interfaces on the router.		

Defect ID:	DEFECT000657101		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	IP Multicast
Reported In Release:	SLXOS 17r.2.00	Technology:	IGMP - Internet Group Management Protocol
Symptom:	Non existing logical interface if used in "ip igmp snooping mrouter" configuration, will be stored in the running-config but not activated in the backend. Cosmetic issue, with no impact to functionality.		
Condition:	This happens if mrouter is configured with a non existing logical interface.		

Defect ID:	DEFECT000657107		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	When BD to VNI mapping changed to different values for the same BD, tunnel is not discovered		
Condition:	When BD to VNI mapping changed to different values for the same BD, tunnel is not discovered		

Defect ID:	DEFECT000657152		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	MAC is not getting learned for host node connected to Vxlan L3 Gateway when one of the LC is powered off and powered on.		
Condition:	MAC is not getting learned host node connected to Vxlan L3 Gateway when one of the LC is powered off and powered on.		

Defect ID:	DEFECT000657223		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	The configuration will fail with an error message "%Error: LIF missing VLAN Classification"		
Condition:	If user tries to change the switch mode to trunk-no-default-native and vlan mode of logical interface from tagged to untagged without removing the tagged vlan configuration from logical interface and associate back to the same bridge-domain will fail.		
Workaround:	The user should delete the tagged vlan configuration under the logical interface and delete the logical interface before changing the switch mode and vlan mode.		
Recovery:	Delete the logical interface and bridge domain configuration and re-configure.		

Defect ID:	DEFECT000657261		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	IP Multicast
Reported In Release:	SLXOS 17r.2.00	Technology:	IGMP - Internet Group Management Protocol
Symptom:	In a high scale scenario of 4k LIFs configured on a Bridge Domain, and sending Multicast or unknown unicast traffic traffic will not be flooded to all the LIFs.		
Condition:	High scale of LIFs configured on a Bridge Domain		

Defect ID:	DEFECT000657299		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Traffic duplication for certain VLANs on LACP enabled MCT client ports after cluster deploy/'no deploy' or cluster re-configuration		
Condition:	Cluster re-configuration or 'no deploy and 'deploy' with active LACP clients		
Workaround:	Shutdown of client ports before cluster re-configuration		
Recovery:	Re-configuration of problematic VLANs i.e. no vlan <id> followed by 'vlan <id>'		

Defect ID:	DEFECT000657354		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	All evpn mac addresses will be displayed irrespective of filter option		
Condition:	When show mac-address command for evpn with tunnel id as filter option is executed.		

Defect ID:	DEFECT000657443		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Security
Reported In Release:	SLXOS 17r.2.00	Technology:	ACLs - Access Control Lists
Symptom:	no warning message generated for identical acl on physical and bd interface		
Condition:	no warning message generated for identical acl on physical and bd interface		

Defect ID:	DEFECT000657490		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	"show ip bgp summary vrf <user-vrf-name>" would timeout without any output		
Condition:	1199 IPv4 and 1199 IPv6 BGP sessions are UP in non-default vrf (user-vrf)		

Defect ID:	DEFECT000657538		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	OSPF - IPv4 Open Shortest Path First
Symptom:	Traffic loss is seen after HA failover, even when OSPF Graceful restart is enabled.		
Condition:	OSPF Graceful restart is enabled & Adjacency is FULL with the neighbor.		

Defect ID:	DEFECT000657569		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Daemon - hslagtd would terminate.		
Condition:	With 2000 BGP sessions in non-default VRF (user-vrf) execute command : "no router bgp " and "reload system"		

Defect ID:	DEFECT000657672		
Technical Severity:	High	Probability:	Low
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	Multi-VRF
Symptom:	Multiple leaked routes are not present in routing table		
Condition:	When same route is leaked from multiple vrfs , route is updated with the last leaked route.		

Defect ID:	DEFECT000657687		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	Mac learning bridge domain interface from remote leaf node is delayed.		
Condition:	Timing condition that can be observed on mac's learned on a bridge domain in logical VTEP topology		
Recovery:	clear the mac in the node issue is seen and allow to relearn it again		

Defect ID:	DEFECT000657689		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	With 650K IPv4 Internet routes and 42K IPv6 Internet routes in BGP, the router would take more than 60 minutes to converge.		
Condition:	BGP neighbors are configured with keep-alive timer: 30 seconds and hold-down timer: 90seconds There are 2 RIB-IN neighbors(1 IPv4 neighbor and 1 IPv6 neighbor) from which the internet routes(650K IPv4 routes from neighbor-1 and 42k IPv6 routes from neighbor 2) are learned. There are 1115 inactive peering sessions to which all the Internet routes are blocked through a deny route-map After the router converges for the fist time, when "clear ip route all" is executed the symptom is observed		
Workaround:	Issue is not observed when BGP neighbors are configured with keep-alive:60 seconds and hold-down timer:180 seconds		

Defect ID:	DEFECT000657748		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	xSTP - Spanning Tree Protocols
Symptom:	With RSTP configuration, the port state keeps alternating between Forwarding and Blocking on vSLXOS		
Condition:	STP feature is unsupported on vSLXOS currently and the problem might be seen on configuration		

Defect ID:	DEFECT000657752		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	Technology:	IP Addressing
Symptom:	Traffic not routed after ICL is shut in the cluster		
Condition:	Traffic not routed after ICL is shut in the cluster		

Defect ID:	DEFECT000657753		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Traffic drop over the EVPN Pseudo wires.		
Condition:	Reloading the line card when MCT cluster is up		

Defect ID:	DEFECT000657819		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.00	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	While using CFM with LAG with UP MEP, sometime Remote MEP flaps is observed when the member port is administratively shut down.		
Condition:	User will observe this behavior while using 8021ag with UP MEP over a LAG interface.		

Defect ID:	DEFECT000657856		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.1.01	Technology:	LAG - Link Aggregation Group
Symptom:	Link aggregation group(LAG) comesup as Link UP with back to back connected links on the same switch.		
Condition:	LAG links are connected back to back to ports on the same switch.		
Workaround:	Keep individual links instead of configuring LAG.		

Defect ID:	DEFECT000657873		
Technical Severity:	High	Probability:	Low
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.00	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	User will experience that with 8021ag configured over a LAG with UP MEP configuration, Remote MEP does not recover from failed state when LAG interface is brought up and down administratively..		
Condition:	User will observe this behavior with 8021ag UP MEP configured with LAG.		
Workaround:	Bring down port-channel and bring it back up administratively.		

Defect ID:	DEFECT000657884		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.00	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	In a 8021ag UP MEP scaled setup, user might experience that Remote MEP Flaps.		
Condition:	When there are more than 4K MAs and 4K UP MEPs are configured, few MEPs flap.		

Defect ID:	DEFECT000658005		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.00	Technology:	BGP/MPLS VPN
Symptom:	VPNV4 routes after HA failover are misssing if GR is enable		
Condition:	VPNV4 routes are not learnt after Switchover if GR is enable in Address family IPv4 unicast.		
Workaround:	Disable BGP GR in in Address family IPv4 unicast.		
Recovery:	clear bgp neighbor		

Defect ID:	DEFECT000658043		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	IP Multicast
Reported In Release:	SLXOS 17r.2.01	Technology:	IGMP - Internet Group Management Protocol
Symptom:	snooping switch does not remove the OIF under (S, G) which is inherited from (*, G) after this OIF left		
Condition:	OIF is not removed from (S, G) which is inherited from (*, G) after this OIF left. (*,g) removed the oif but not the (s,g)		

Defect ID:	DEFECT000658056		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.00	Technology:	High Availability
Symptom:	Both MMs may be stuck in standby state.		
Condition:	This will happen if a daemon can't come up properly in the early device boot up phase.		
Recovery:	Reboot the device again.		

Defect ID:	DEFECT000658164		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.00	Technology:	MCT - Multi-Chassis Trunking
Symptom:	MCT VPLS Traffic will dropped over MCT link		
Condition:	With High EVPN vlan range, Reloading of the MCT peer with EVPN configuration will rarely cause this issue		
Recovery:	clear ip bgp neighbors <peer-ip>		

Defect ID:	DEFECT000658229		
Technical Severity:	Low	Probability:	Medium
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.1.01	Technology:	Hardware Monitoring
Symptom:	?show media optical-monitoring interface <if-name>? don?t display values for admin shutdown port		
Condition:	Port is in admin down mode and pluggable media is present		

Defect ID:	DEFECT000658383		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.1.01	Technology:	CLI - Command Line Interface
Symptom:	User may observe that IS-IS parameters under interface are not displayed completely in running configuration.		
Condition:	This issue may be observed when user configures default values for IS-IS parameters under interface.		

Defect ID:	DEFECT000658390		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.2.00	**Technology:**	Software Installation & Upgrade
Symptom:	LC becomes faulty momentarily during firmware download		
Condition:	It is a rare case when the LC takes too long to boot up with the new firmware.		
Workaround:	None is needed. The blade will recover automatically		
Recovery:	It will recover automatically		

Defect ID:	DEFECT000658576		
Technical Severity:	High	**Probability:**	Medium
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	BGP process termination is observed upon adding a large prefix list to the running config and applying it to BGPv4 neighbors inbound , performing a soft clear to take effect		
Condition:	BGP process terminated after making filter changes and performing soft clear		
Recovery:	BGP deamon will restart		

Defect ID:	DEFECT000658622		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Monitoring
Reported In Release:	SLXOS 17r.2.01	**Technology:**	RAS - Reliability, Availability, and Serviceability
Symptom:	Switch reloads when the user is doing a REST query for MPLS operational state with resource-depth greater than 10 from multiple sessions.		
Condition:	LSPs/Cross-connects count exceeding 1024		
Workaround:	Execute REST query from one session only		

Defect ID:	DEFECT000658661		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	Some of the MAC routes missing when BGP neighborship is changed form V4 to V6.		
Condition:	BGP neighborship is changed from V4 to V6		
Recovery:	Clear bgp epvn neighbor all		

Defect ID:	DEFECT000658672		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	VLAN - Virtual LAN
Symptom:	L3 traffic drop on ARP suppression enabled VE's.		
Condition:	In L3VNI configured node, when ARP suppression is enabled on VE, sometime MACs are not synced from MAC manager to ARP.		
Recovery:	Executing "clear mac-address dynamic" will flush the MACs and resolve the ARP cache.		

Defect ID:	DEFECT000658790		
Technical Severity:	High	**Probability:**	Medium
Product:	SLX-OS	**Technology Group:**	Security
Reported In Release:	SLXOS 17r.2.01	**Technology:**	ACLs - Access Control Lists
Symptom:	acl with logging enabled causes error message sometimes		
Condition:	acl with logging enabled causes error message sometimes		

Defect ID:	DEFECT000658794		
Technical Severity:	High	**Probability:**	Medium
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.1.01	**Technology:**	VLAN - Virtual LAN
Symptom:	MAC learning will get effected.		
Condition:	HA failover performed more than once.		

Defect ID:	DEFECT000658862		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.1.01	**Technology:**	CLI - Command Line Interface
Symptom:	?show media optical-monitoring? and ?show media optical-monitoring supported-interfaces? don?t display values for admin shutdown port		
Condition:	Port is in admin down mode and pluggable media is present		

Defect ID:	DEFECT000658871		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.2.01	**Technology:**	CLI - Command Line Interface
Symptom:	Empty response will be seen for "show ntp" command via restconf		
Condition:	When show ntp status command executed in restconf query		
Workaround:	Use CLI command to get desired output.		

Defect ID:	DEFECT000659056		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Security
Reported In Release:	SLXOS 17r.2.00	**Technology:**	AAA - Authentication, Authorization, and Accounting
Symptom:	LDAP authentication is failing on default-vrf with the certificates.		
Condition:	LDAP authentication failure		
Workaround:	Do not use certificate		

Defect ID:	DEFECT000659128		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	"show cluster x client y", displays bridge domain twice.		
Condition:	Addition of logical interfaces of same underlying main interface under Bridge-Domain.		

Defect ID:	DEFECT000659129		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.01	Technology:	Configuration Fundamentals
Symptom:	Cluster client status will be down when a vlan is extended as both Manual and Auto. .		
Condition:	When vlan is extended as both Manual and Auto.		
Workaround:	This is unsupported configuration.		
Recovery:	Convert vlan into either Manual or Auto, based based on the other node configuration.		

Defect ID:	DEFECT000659344		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Access endpoint traffic is flooded to other access endpoints and VPLS peers in the bridge-domain.		
Condition:	When message processing channel utilization is high within MAC manager, the MCT client interface status is not synced and affects the MAC learning. In this case MAC programming is not performed in the hardware and traffic is flooded on ports in the bridge-domain.		
Recovery:	Performing shutdown and no shutdown on the physical interface of MCT client interface resolves the status and update MAC programming.		

Defect ID:	DEFECT000659358		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.01	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	CFM Connectivity fails, when Pseudo-wire is configured as LAG interface and LAG is part of VE interface and MEP is configured for this Pseudo-wire. In nutshell AC LIF and LAG are part of same VLAN, user might see issues with CFM connectivity.		
Condition:	User will see this issue while deploying CFM with VPLS with Pseudo-wire interface on Lag		

Defect ID:	DEFECT000659400		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	MPLS
Reported In Release:	SLXOS 17r.2.01	**Technology:**	IP over MPLS
Symptom:	Traffic drop and user may experience LSP down in hardware.		
Condition:	In case of very huge scale of LSP and a bypass LSP tunnel is used by multiple LSPs as secondary path. User does "clear lsp all" multiple times.		

Defect ID:	DEFECT000659427		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.01	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Sometimes fib compression is not enabled on loading config from flash		
Condition:	Running fib compression		

Defect ID:	DEFECT000659439		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	MAC learned with VLAN 1 when the MCT ICL interface is flapped and traffic is running on BD (Logical interface with one vlan configured). The workaround for the issue is to configure the ICL VE interface without default-vlan		
Condition:	MAC learned with VLAN 1 when the MCT ICL interface is flapped and traffic is running on BD (Logical interface with one vlan configured). The workaround for the issue is to configure the ICL VE interface without default-vlan		

Defect ID:	DEFECT000659492		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	When routing is enabled over a Bridge Domain, for VEoVPLS, and if the PW profile on that Bridge Domain is in Raw mode then forwarding may not work as intended.		
Condition:	User has enabled routing over a Bridge Domain in earlier release, and upgraded the setup to SLXOS17r.2.01.		
Recovery:	Disable routing on the Bridge Domain.		

Defect ID:	DEFECT000659567		
Technical Severity:	High	**Probability:**	Medium
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	QinQ - IEEE 802.1Q
Symptom:	'fwd' process unintended termination may be seen during port initialization phase while booting up SLX9850 with startup-configuration.		
Condition:	When tag-type configuration is present in the startup-configuration and user tries to boot up SLX9850 with this startup-configuration. Example:- interface ethernet 2/42 tag-type 0x9200 switchport switchport mode trunk switchport trunk allowed vlan add 4060,4070,4080 no switchport trunk tag native-vlan switchport trunk native-vlan 4080 no shutdown !		
Workaround:	Since this issue is not consistent, reloading the device may resolve the issue.		

Defect ID:	DEFECT000659662		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Client Pseudo wire stays down once router comes back up after reload		
Condition:	Router reload		
Workaround:	Undeploy and deploy the MCT. -> "no deploy" followed by "deploy" under client-pw		

Defect ID:	DEFECT000659761		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Traffic drop and user may see a LSP down.		
Condition:	High availability failover followed by MCT cluster configuration of removal and re-add.		

Defect ID:	DEFECT000659766		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	IP Multicast
Reported In Release:	SLXOS 17r.2.01	**Technology:**	IGMP - Internet Group Management Protocol
Symptom:	When systems learn more than 16384 IGMP snooping multicast entries, "Memory Alloc Error: SNP Group Create" error messages will be displayed on console.		
Condition:	When IGMP join messages are sent for more than 16384 IGMP groups, "Memory Alloc Error: SNP Group Create" error messages will be seen on console.		
Workaround:	Do not learn more than 16384 IGMP snooping multicast entries.		
Recovery:	Stop sending IGMP join messages for the IGMP groups that exceeds 16384 multicast entries.		

Defect ID:	DEFECT000659798		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.01	**Technology:**	Multi-VRF
Symptom:	OSPF adjacency would stuck in LOADING state for around 30 minutes before becoming FULL.		
Condition:	Modifying OSPF area configuration multiple times in OSPF topology with an ASBR could trigger this issue.		

Defect ID:	DEFECT000659832		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Flooding of packets is being observed for traffic targeted to the client in MCT node		
Condition:	Removal and addition of MCT - cluster configuration.		
Workaround:	Clear the macs on other node in MCT set-up, so that macs are learnt freshly.		

Defect ID:	DEFECT000659847		
Technical Severity:	High	**Probability:**	Medium
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.00	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Adding BGP peers manually (pasting cli config on telnet/ssh sessions) taking a couple of minutes, same applies to making filter changes to many peers at once. In our testing it took more than 2 to 3 minutes to add 250 peers		
Condition:	Router configured with peer which learns full internet RIB IN (both IPv4 and IPv6)		

Defect ID:	DEFECT000659852		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.2.01	**Technology:**	SNMP - Simple Network Management Protocol
Symptom:	The single instance trap of bfdSessDown has same instance identifier (as expected) but different values (not correct).		
Condition:	When bfdSessDown trap is received on a trap receiver.		

Defect ID:	DEFECT000659856		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.2.01	**Technology:**	High Availability
Symptom:	Loss of traffic for 275 seconds between MCT peers, when ve is disabled.		
Condition:	In some topologies, when the outgoing ve link for an LSP is disabled at ingress, the LSP is not able to route around the failure until the RSVP state downstream times out.		

Defect ID:	DEFECT000659857		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.2.01	**Technology:**	Configuration Fundamentals
Symptom:	"system is about to reload" message is not sent to syslog server consistently.		
Condition:	On reload "system is about to reload" message may not be sent to syslog server.		
Workaround:	This message will show up inconsistently in syslog depending on how soon the system is rebooted. The user can monitor other messages to determine whether the system has rebooted.		

Defect ID:	DEFECT000659924		
Technical Severity:	High	**Probability:**	Medium
Product:	SLX-OS	**Technology Group:**	Monitoring
Reported In Release:	SLXOS 17r.2.01	**Technology:**	OAM - Operations, Admin & Maintenance
Symptom:	Timing issue which leads to unexpected reload. .		
Condition:	CFM enabled bridge domain configuration is removed.		
Workaround:	Remove the MEP configuration before removing the bridge-domain configuration.		

Defect ID:	DEFECT000659931		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Evpn-static mac is not removed from mac table after the client port is shut.		
Condition:	MCT Client is down on both the peers,Evpn static mac in the vlan is still seen in mac table of both the peers. This issue is seen when the interior gateway protocol was ISIS, The behaviour is not seen when the interior gateway protocol is OSPF.		
Workaround:	.		
Recovery:	.		

Defect ID:	DEFECT000659942		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	MCT related debug data is not available in SS. No customer impact.		
Condition:	MCT functionality debug information in support save to help debug.		

Defect ID:	DEFECT000659952		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.01	Technology:	ARP - Address Resolution Protocol
Symptom:	Running failover tests may cause MAC tables to go out of synchronization		
Condition:	Running failover tests		

Defect ID:	DEFECT000659954		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.01	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	Higher average and max frame delay in scheduled DMM tests.		
Condition:	When system exchanges high number of control frames.		

Defect ID:	DEFECT000660012		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.01	Technology:	Configuration Fundamentals
Symptom:	VPLS data traffic loss seen for an average of 230 seconds after MM failover.		
Condition:	MCT doesn't support hitless failover and hence it will tear down and recreate all the BGP. MPLS RSVP sessions which the time taken for programming is proportional to the total scale number. This is expected as per current design.		

Defect ID:	DEFECT000660020		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.2.01	**Technology:**	Configuration Fundamentals
Symptom:	User may observe traffic drop in a flooding domain for very short time, approx 200 pkt.		
Condition:	When bridge domain is part of MCT and a peer is removed and added to a bridge domain.		

Defect ID:	DEFECT000660062		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.01	**Technology:**	BGP4+ - IPv6 Border Gateway Protocol
Symptom:	A core file is observed. The setup recovers afterwards and it works fine. This is as-design.		
Condition:	No condition.		

Defect ID:	DEFECT000660082		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	During Multiple HA failover operation, sometimes some LSP might get stuck in the DOWN state. This problem is not easily reproducible.		
Condition:	This condition might happen after multiple HA swithover.		

Defect ID:	DEFECT000660084		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	MGID membership goes wrong sometime cause the BUM is flooded by non-DF nodes when tunnel is flapped.		
Condition:	MGID membership goes wrong sometime cause the BUM is flooded by non-DF nodes when tunnel is flapped.		

Defect ID:	DEFECT000660103		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.01	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	For a non-MCT node, the remote PW preferential status may have a different value than the actual remote node status.		
Condition:	For a non-MCT VPLS peer, irrespective of the remote role, the PW will get programmed in the hardware. From forwarding perspective, it will not have any impact on the traffic forwarding.		
Workaround:	Ignore the remote PW preferential status if the local node is non-mct.		

Defect ID:	DEFECT000660104		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.01	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	BGP sessions configured under BGP user-vrf stuck at OPENS state.		
Condition:	BGP peers are configured under BGP user-vrf and HA failover is triggered manually using CLI command		

Defect ID:	DEFECT000660168		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	IP Multicast
Reported In Release:	SLXOS 17r.2.01	Technology:	IGMP - Internet Group Management Protocol
Symptom:	Traffic loss for IGMP group member port over CCEP client in MCT cluster. Issue is only seen when CCEP client is configured as ETH port and not the Port-channel.		
Condition:	Issue is only seen when cluster is up for the first time. Any state change on CCEP client later should resolve the issue.		
Workaround:	Workaround is the enable disable CCEP client after the MCT cluster is up		
Recovery:	Clearing the IGMP group entries for the affected traffic, should recover the switch from the problem state.		

Defect ID:	DEFECT000660188		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	Some of the VXLAN MACs are not installed in the hardware when EVPN configuration is removed and re-added		
Condition:	Some of the VXLAN MACs are not installed in the hardware when EVPN configuration is removed and re-added		
Workaround:	clear all the bgp evpn sessions		

Defect ID:	DEFECT000660265		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	BGP terminates while getting EVPN operaton status using REST API.		
Condition:	EVPN REST API are not tested completely, Limited EVPN REST API support for EVPN.		

Defect ID:	DEFECT000660301		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17r.2.01	Technology:	Software Installation & Upgrade
Symptom:	Sometimes after firmware upgrade 72x10G linecard stays in LOADING state for 25-30 mins and then eventually faults. The software auto-recovery logic power cycles the line card to recover it.		
Condition:	Firmware upgrade on 72x10G linecard.		
Recovery:	The software auto-recovery logic automatically power cycles the line card to recover it.		

Defect ID:	DEFECT000660326		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Layer 3 traffic drops over MCT link		
Condition:	After HA failover, remove and add EVPN configuration will intermittently cause Layer 3 traffic to drop over MCT		
Recovery:	Clear mpls lsp will resolve the issue. Clear mpls lsp all		

Defect ID:	DEFECT000660343		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.01	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	VPLS PW will be down		
Condition:	After HA failover, VPLS PW status will be down		
Recovery:	"clear mpls lsp" will recover from the issue. clear mpls lsp all		

Defect ID:	DEFECT000660402		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	IP Multicast
Reported In Release:	SLXOS 17r.2.01	Technology:	PIM - Protocol-Independent Multicast
Symptom:	The display output for the command 'show ip pim settings' shows the extra characters in the IP prefix range, for SSM groups.		
Condition:	This cosmetic display issue is observed when PIM SSM group range is configured and the switch is reloaded. The Display output shows extra '/0' in the IP prefix.		

Defect ID:	DEFECT000660424		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Cluster client Remote status may be down when configuration with manual RD and RT is downloaded form server.		
Condition:	Vlan or BD when converted from Manual to Auto or vice versa, BGP sends a refresh request, some reason refresh request is not sent.		
Workaround:	clear bgp evpn neighbor <MCT-PEER> soft in		
Recovery:	To recover please issue the following command: clear bgp evpn neighbor <MCT-PEER> soft in		

Defect ID:	DEFECT000660428		
Technical Severity:	Medium	Probability:	High
Product:	SLX-OS	Technology Group:	IP Multicast
Reported In Release:	SLXOS 17r.2.01	Technology:	IGMP - Internet Group Management Protocol
Symptom:	Hslagtd terminates on FHR after reloading LHR		
Condition:	This happens only in rare scenario. not likely to happen. Hslagtd terminates on FHR after reloading LHR		

Defect ID:	DEFECT000660446		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	IP Multicast
Reported In Release:	SLXOS 17r.2.01	**Technology:**	IPv4 Multicast Routing
Symptom:	The symptoms involve reboot of the switch due to Layer 2 Multicast process termination.		
Condition:	The issue is observed when the PIM SSM group range is configured with the same IP Prefix as of the IGMP SSM map group prefix.		

Defect ID:	DEFECT000660511		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Traffic is flooded on the VLAN mapped to MCT cluster		
Condition:	In scaled MCT setup when line card is reloaded the database sync-up between MAC manager component is incomplete and affects MAC learning.		
Recovery:	Reload the line card once again to allow database sync to complete.		

Defect ID:	DEFECT000660525		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Security
Reported In Release:	SLXOS 17r.1.01	**Technology:**	RADIUS
Symptom:	When the REST query is executed using Radius/Tacacs users, with authentication-token in query, REST query fails as Unauthorized.		
Condition:	With authentication-Token in the REST request.		

Defect ID:	DEFECT000660551		
Technical Severity:	Medium	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	VXLAN - Virtual Extensible LAN
Symptom:	Display issue for default command.		
Condition:	"Show running config all" doesn't display qos default mode for VxLAN.		

Defect ID:	DEFECT000660578		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Security
Reported In Release:	SLXOS 17r.2.01	Technology:	ACLs - Access Control Lists
Symptom:	In rare cases, ssagtd at line card reloaded unexpectedly with removal of mac acl based policing		
Condition:	It was found when cam profile "openflow-optimised-2" and counter profile "counter-profile-2" were used.		

Defect ID:	DEFECT000660584		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Unexpected reload of the system.		
Condition:	High availability fail-over of MM.		

Defect ID:	DEFECT000660593		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	L2/L3/VPLS traffic loss		
Condition:	client-interface-shutdown followed by no deploy on MCT node		

Defect ID:	DEFECT000660609		
Technical Severity:	High	Probability:	Medium
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.01	Technology:	MPLS VLL - Virtual Leased Line
Symptom:	MPLS daemon restarted due to software fault.		
Condition:	The TPID of the port-channel interface where 4000 VE interfaces was configured.		

Defect ID:	DEFECT000660612		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.01	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	While deploying CFM, user might occasionally observed that MEPs configured on port channel move to failed state, when member-ports are added or removed		
Condition:	CFM deployment with port-channel and then Addition or deletion of member interfaces to port-channel		
Recovery:	Port channel shutdown and 'no shutdown' should help recover from the situation		

Defect ID:	DEFECT000660617		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Cluster client status may not be UP, when evpn instance is removed and re-added after the HA. There will be traffic loss due to cluster status.		
Condition:	When EVPN instance is removed and re-added after HA.		
Recovery:	Clear bgp evpn neighbor <mct-peer> should resolve this condition.		

Defect ID:	DEFECT000660823		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	MPLS
Reported In Release:	SLXOS 17r.2.01	Technology:	MPLS VLL - Virtual Leased Line
Symptom:	User may observe "hslagt_lif_brcm_delete_lag_lif: unable to find xconnect partner LIF" on LC console.		
Condition:	Bridge domain is removed from EVPN MCT.		

Defect ID:	DEFECT000660831		
Technical Severity:	High	Probability:	Low
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 17r.2.01	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Linecard (36x100) goes out of Memory and reboots		
Condition:	Continuos BGP session flaps for a long time using a script on a system with Scaled routes(1 M)		

Defect ID:	DEFECT000660878		
Technical Severity:	High	Probability:	High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	After rapid cluster 'no deploy' & 'deploy' on a cluster peer, BUM traffic to certain clients connected via LACP port-channel may not reach the client for half the VLANs or bridge domains.		
Condition:	Configuring 'no deploy' followed by 'deploy' rapidly without sufficient time gap and clients connected through active LACP port-channel during cluster 'no deploy'/'deploy'.		
Workaround:	Workaround to avoid running into this issue 1. Provide sufficient gap between 'no deploy' and 'deploy'. 2. If there are multiple clients using LACP port-channel, perform client-interface-shutdown before 'no deploy' & 'deploy'. Remove 'client-interface-shutdown' after the cluster is deployed		
Recovery:	client interface shutdown followed by 'no shutdown' for the client where the issue is seen		

Defect ID:	DEFECT000660921		
Technical Severity:	High	Probability:	Low
Product:	SLX-OS	Technology Group:	IP Multicast
Reported In Release:	SLXOS 17r.2.01	Technology:	PIM - Protocol-Independent Multicast
Symptom:	After line card reload, the out going interface will be deleted from the entry and it shows as number of OIFs as ZERO.		
Condition:	1. This issue can be seen when a port-channel has member ports from multiple line cards and 2. This port channel should be bound to a VE interface which is out going interface of PIM entry and 3. One of the mentioned line card is reloaded.		
Recovery:	Clear the affected PIM entry using "clear ip pim mcache"		

Defect ID:	DEFECT000661051		
Technical Severity:	High	**Probability:**	Low
Product:	SLX-OS	**Technology Group:**	MPLS
Reported In Release:	SLXOS 17r.2.01	**Technology:**	MPLS VPLS - Virtual Private LAN Services
Symptom:	During High availability Management Module fail-over, Layer 2 MAC addresses from a remote VPLS peer are learnt on a different Bridge Domain.		
Condition:	The user has issued High availability MM failover command so that the standby MM becomes an active MM		
Workaround:	MAC learned unexpectedly will be aged out after MAC age timer expires. Also, Configuring MAC age timer to a smaller value will help to age out the unexpected MAC faster.		

Defect ID:	DEFECT000661059		
Technical Severity:	High	**Probability:**	High
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported In Release:	SLXOS 17r.2.01	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	In some rare case, EVPN routes might not be ex-changed between peers.		
Condition:	After deactivating and activating the l2vpn EVPN address family		
Recovery:	Use clear bgp evpn neighbor soft in command		

Defect ID:	DEFECT000661097		
Technical Severity:	High	**Probability:**	Medium
Product:	SLX-OS	**Technology Group:**	Management
Reported In Release:	SLXOS 17r.2.01	**Technology:**	Configuration Fundamentals
Symptom:	VXLAN stripping may not work as expected in some cases		
Condition:	VXLAN stripping may not work as expected in some cases when "strip-vlan" is configured		