March 2021

Extreme SLX-OS 20.3.1

Release Notes

Supporting ExtremeRouting and ExtremeSwitching SLX 9740, SLX 9640, SLX 9540, SLX 9150, and SLX 9250

Part Number 9037028-00 Rev AA

Contents

Document History

Version	Summary of changes	Publication date
1.0	Initial version for 20.3.1	March 2021

Preface

Getting Help

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

- Extreme Portal: Search the GTAC (Global Technical Assistance Center) knowledge base; manage support cases and service contracts; download software; and obtain product licensing, training and certifications.
- The Hub: A forum for Extreme Networks customers to connect with one another, answer questions, and share ideas and feedback. This community is monitored by Extreme Networks employees but is not intended to replace specific guidance from GTAC.
- Call GTAC: For immediate support, call (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.

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- A description of the failure
- A description of any actions 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

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The Information Development team at Extreme Networks has made every effort to ensure the accuracy and completeness of this document. We are always striving to improve our documentation and help you work better, so we want to hear from you. We welcome all feedback, but we especially want to know about:

- Content errors, or confusing or conflicting information
- Improvements that would help you find relevant information in the document
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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.

Release Overview

Release SLX-OS 20.3.1 provides the following features:

- Support for BGP Resource Public Key Infrastructure Prefix Origin Validation
- Added support for Unified Routing
- Maintenance Mode support is now available for all devices
- Enhanced Transmission Selection is now supported
- Forced password change on first login is now enforced
- Up to 6 DNS name servers can now be assigned
- Enhanced reporting for VE Statistics for SLX 9540 and SLX 9640
- Option available to drop BPDUs on L2 ports of the switch

Behavior Changes

There are no behavior changes for SLX-OS 20.3.1.

Software Features

The following key software features are added in the SLX-OS 20.2.3 release.

Feature Name	**Supported SLX Platforms**	**Description**
BGP RPKI Prefix Origin Validation	SLX 9740 SLX 9640 SLX-9540	BGP prefix origin validation feature provides the validation mechanism to validate the origination of AS number of BGP routes. It implements the RFCs 6811/8481, 6810/8210 and 8097.
Unified Routing	SLX 9740 SLX 9640 SLX 9540	Traditionally Layer-3 extension between two EVPN fabrics over MPLS/L3VPN network required two separate entities. A Border-Leaf(BL) that terminates VXLAN encapsulation from EVPN fabric and hands-off Layer-3 routed packet to MPLS edge(DC-GW) and the MPLS edge(DC-GW) which acts as a L3VPN PE router that does label-switching in the WAN core. With unified routing the capabilities of both BL and DC-GW are collapsed into BL itself to achieve VXLAN-MPLS interworking.
Maintenance Mode Enhancement	All Platforms	Enhancement to the existing Maintenance Mode feature to shut all the ports, especially fabric links towards the spine nodes, to completely isolate the node undergoing MM.

Feature Name	Supported SLX Platforms	Description
ETS/LLDP for Azure	SLX 9150 SLX 9250	In a Data Center environment, SAN traffic needs to be loss-less and treated with higher priority compared to LAN traffic. Enhanced Transmission Selection (ETS) defines priority-based processing and bandwidth allocation on different traffic classes with different traffic types (e.g, LAN, SAN, IPC). With ETS feature, user can map incoming priorities (CoS) to traffic-classes, assigning weights and corresponding bandwidth to those priorities and scheduling of all occupied traffic-class traffic to egress wire. User can also selectively enable link level per traffic-class Priority-based Flow Control (PFC) for loss-less traffic. LLDP Exchanges helps in negotiating ETS configurations with peer, as treatment of the traffic traffic-class needs to be same throughout the network.
Force Root Password Change	All Platforms	The password of default users root, admin and user can be changed during 1st login, if force password change CLI is enabled. This change is also affected if max password-age configured via password attributes CLI has expired.
Redundant IP DNS server	All Platforms	Maximum of 6 DNS servers (combination of ipv4 and ipv6) can be configured. The SLX DNS client will try to reach the next DNS server in sequence when the first one is not reachable.
VE Statistics added for SLX 9540 and SLX 9640	SLX 9640 SLX 9540	VE Statistics for SLX 9540 and SLX 9640 provides the stats counting on a VE interface on the egress. A new counter profile-6 is required to enable this feature. Ingress VE stats counting is available via ingress VLAN stats counting.
BPDU Drop Enable	All Platforms	If Spanning-Tree Protocol is not enabled on switch, default behavior is to forward the BPDUs. This may cause port to be detected as loop and gets blocked by STP enabled peer switch. This feature provides option to drop BPDUs on L2 ports of the switch.

CLI Commands

The following commands were added, modified, or deprecated for the 20.3.1 program

New commands for 20.3.1

- bestpath prefix-validation disable
- bestpath prefix-validation disallow-invalid
- cee
- cee-map
- import l2vpn evpn reoriginate
- import vpnv4 unicast reoriginate
- import vpnv6 unicast reoriginate
- match rpki
- neighbor announce rpki state
- priority-group-table
- priority-table
- rpki priority
- server ssh
- server tcp
- show cee-map default

Modified commands for 20.3.1

- bpdu-drop-enable
- clear ip bgp rpki server
- clear counters
- clear counters access-list
- ip dns
- ip access-list
- password-attributes
- profile counters
- monitor session
- show lldp neighbors
- show system maintenance
- show ip bgp rpki details
- show ip bgp rpki server summary
- show ip bgp rpki table
- show ip bgp routes
- show hardware profile
- show interface stats detail
- show access-list
- show statistics access-list
- system maintenance
- system maintenance turn-off

Deprecated commands for 20.3.1

- match uda
- seq (deny/permit rules in UDAs)
- set uda interface null0
- show running-config uda access-list
- show running-config uda-key profile
- uda access-group
- uda access-list
- uda policy route-map
- uda-key profile
- uda-offsets
- uda-profile-apply

Hardware Support

Supported devices and software licenses

Supported devices	Description
SLX9740-40C	Extreme SLX 9740-40C Router. Base unit with 40x100GE/40GE capable QSFP28 ports, 2 unpopulated power supply slots, 6 unpopulated fan slots
SLX9740-40C-AC-F	Extreme SLX 9740-40C-AC-F Router. Base unit with 40x100GE/40GE capable QSFP28 ports, 2 AC power supplies, 6 fan modules
SLX9740-80C	Extreme SLX 9740-80C Router. Base unit with 80x100GE/40GE capable QSFP28 ports, 4 unpopulated power supply slots, 4 unpopulated fan slots
SLX9740-80C-AC-F	Extreme SLX 9740-80C-AC-F Router. Base unit with 80x100GE/40GE capable QSFP28 ports, 4AC power supplies, 4 fan modules
SLX9740-ADV-LIC-P	Advanced Feature License for MPLS, BGP-EVPN and Integrated Application Hosting for Extreme SLX 9740
SLX9150-48Y-8C	Extreme SLX 9150-48Y Switch with two empty power supply slots, six empty fan slots. Supports 48x25GE/10GE/1GE + 8x100GE/40GE.
SLX9150-48Y-8C-AC-F	Extreme SLX 9150-48Y Switch AC with Front to Back Airflow. Supports 48x25GE/10GE/1GE + 8x100GE/40GE with dual power supplies, six fans.
SLX9150-48Y-8C-AC-R	Extreme SLX 9150-48Y Switch AC with Back to Front Airflow. Supports 48x25GE/10GE/1GE + 8x100GE/40GE with dual power supplies, six fans.
SLX9150-48XT-6C	Extreme SLX 9150-48XT 10GBaseT Switch with two empty power supply slots, six empty fan slots, Supports 48x10GE/1GE + 6x100GE/40GE.
SLX9150-48XT-6C-AC-F	Extreme SLX 9150-48XT 10GBaseT Switch AC with Front to Back Airflow, Supports 48x10GE/1GE + 6x100GE/40GE with dual power supplies, six fans.
SLX9150-48XT-6C-AC-R	Extreme SLX 9150-48XT 10GBaseT Switch AC with Back to Front Airflow, Supports 48x10GE/1GE + 6x100GE/40GE with dual power supplies, six fans.
SLX9150-ADV-LIC-P	SLX 9150 Advanced Feature License for GuestVM, Analytics Path, PTP, BGP-EVPN.
SLX9250-32C	SLX 9250-32C Switch with two empty power supply slots, six empty fan slots. Supports 32x100/40GE.
SLX9250-32C-AC-F	SLX 9250-32C Switch AC with Front to Back Airflow. Supports 32x100GE/40GE with dual power supplies, six fans.
SLX9250-32C-AC-R	SLX 9250-32C Switch AC with Back to Front Airflow. Supports 32x100GE/40GE with dual power supplies, six fans.
SLX9250-ADV-LIC-P	SLX 9250 Advanced Feature License for GuestVM, Analytics Path, BGP-EVPN.
BR-SLX-9540-48S-AC-R	SLX 9540-48S Switch AC with Back to Front airflow (Non-port Side to port side airflow). Supports 48x10GE/1GE + 6x100GE/40GE. (1+1) redundant power supplies and (4+1) redundant fans included.
BR-SLX-9540-48S-AC-F	SLX 9540-48S Switch AC with Front to Back airflow (Port-side to non-port side airflow). Supports 48x10GE/1GE + 6x100GE/40GE. (1+1) redundant power supplies and (4+1) redundant fans included.
BR-SLX-9540-24S-DC-R	SLX 9540-24S Switch DC with Back to Front airflow (Non-port Side to port side airflow). Supports 24x10GE/1GE + 24x1GE ports.

Supported devices	Description
BR-SLX-9540-24S-DC-F	SLX 9540-24S Switch DC with Front to Back airflow (Port-side to non-port side airflow). Supports 24x10GE/1GE + 24x1GE ports.
BR-SLX-9540-24S-AC-R	SLX 9540-24S Switch AC with Back to Front airflow (Non-port Side to port side airflow). Supports 24x10GE/1GE + 24x1GE ports.
BR-SLX-9540-24S-AC-F	SLX 9540-24S Switch AC with Front to Back airflow (Port-side to non-port side airflow). Supports 24x10GE/1GE + 24x1GE ports.
BR-SLX-9540-48S-DC-R	SLX 9540-48S Switch DC with Back to Front airflow (Non-port Side to port side airflow). Supports 48x10GE/1GE + 6x100GE/40GE. (1+1) redundant power supplies and (4+1) redundant fans included.
BR-SLX-9540-48S-DC-F	SLX 9540-48S Switch DC with Front to Back airflow (Port-side to non-port side airflow). Supports 48x10GE/1GE + 6x100GE/40GE. (1+1) redundant power supplies and (4+1) redundant fans included.
BR-SLX-9540-24S-COD-P	Upgrade 24x1GE to 24x10GE/1GE for SLX 9540
BR-SLX-9540-ADV-LIC-P	Advanced Feature License for SLX 9540
EN-SLX-9640-24S	Extreme SLX 9640-24S Router. Supports 24x10GE/1GE + 4x100GE/40GE. (24S+4C sku no Power supplies or Fans)
EN-SLX-9640-24S-12C	Extreme SLX 9640-24S Router. Supports 24x10GE/1GE + 12x100GE/40GE. (All ports 24S+12C sku with no Power supplies or Fans)
EN-SLX-9640-24S-AC-F	Extreme SLX 9640-24S Router AC with Front to Back airflow. Supports 24x10GE/1GE + 4x100GE/40GE.(1 Power supply 6 Fans)
EN-SLX-9640-24S-12C-AC-F	Extreme SLX 9640-24S Router AC with Front to Back airflow. Supports 24x10GE/1GE + 12x100GE/40GE.(1 Power supply 6 Fans)
EN-SLX-9640-4C-POD-P	Extreme SLX 9640 Ports on Demand License for 4 ports of 100GE/40GE Uplinks
EN-SLX-9640-ADV-LIC-P	Extreme SLX 9640 Advanced Feature License
8000-PRMR-LIC-P	Extreme 8000 Premier Feature License (includes Integrated Application Hosting)

Supported power supplies, fans, and rack mount kits

XN-ACPWR-1600W-F	SLX 9740 Fixed AC 1600W Power Supply Front to Back. Power cords not included.
XN-ACPWR-1600W-R	SLX 9740 Fixed AC 1600W Power Supply Back to Front. Power cords not included.
XN-DCPWR-1600W-F	SLX 9740 Fixed DC 1600W Power Supply Front to Back. Power cords not included.
XN-ACPWR-1600W-F	SLX 9740 Fixed AC 1600W Power Supply Front to Back. Power cords not included.
XN-FAN-003-F	SLX 9740 FAN Front to Back airflow for SLX9740-40C
XN-FAN-003-R	SLX 9740 FAN Back to Front airflow for SLX9740-40C
XN-FAN-004-F	SLX 9740 FAN Front to Back airflow for SLX9740-80C
XN-FAN-004-R	SLX 9740 FAN Back to Front airflow for SLX9740-80C
XN-4P-RKMT299	2-Post Rail Kit for SLX 9740-40C
XN-2P-RKMT300	2-Post Rail Kit for SLX 9740-80C
XN-4P-RKMT301	4-Post Rail Kit for SLX 9740-80C
XN-4P-RKMT302	4-Post Rail Kit for SLX 9740-40C
XN-ACPWR-750W-F	AC 750W PSU, Front to Back Airflow supported on VSP 7400, SLX 9150, SLX 9250, X695
XN-ACPWR-750W-R	AC 750W PSU, Back to Front Airflow supported on VSP 7400, SLX 9150, SLX 9250, X695
XN-DCPWR-750W-F	DC 750W PSU, Front to Back Airflow supported on VSP 7400, SLX 9150, SLX 9250, X695
XN-DCPWR-750W-R	DC 750W PSU, Back to Front Airflow supported on VSP 7400, SLX 9150, SLX 9250, X695
XN-FAN-001-F	Front to back Fan for use in VSP 7400, SLX 9150, SLX 9250, X695
XN-FAN-001-R	Back to Front Fan for use in VSP 7400, SLX 9150, SLX 9250, X695
XN-4P-RKMT298	Four post rack mount rail kit supported on VSP 7400, SLX 9150, SLX 9250, X695
XN-2P-RKMT299	Two post rack mount rail kit supported on VSP 7400, SLX 9150, SLX 9250, X695

Supported Optics and Cables

For a complete list of all supported optics, see **Extreme Optics** at https://optics.extremenetworks.com/.

Supported FEC modes

SLX 9250

Port Type	Media Type	Default FEC Mode	Supported FEC Modes
100G	Passive DAC	RS-FEC	RS-FEC Disabled
100G	SR4	RS-FEC	RS-FEC Disabled
100G	LR4	Disabled	RS-FEC Disabled
25G	Breakout DAC SR	Auto-Neg	RS-FEC FC-FEC Auto-Neg Disabled
25G	Breakout SR4	FC-FEC	RS-FEC FC-FEC Disabled

SLX 9740

Port Type	Media Type	Default FEC Mode	Supported FEC Modes
100G	Passive DAC	RS-FEC	RS-FEC Disabled
100G	SR4	RS-FEC	RS-FEC Disabled
100G	LR4	Disabled	RS-FEC Disabled
25G	Breakout DAC SR	FC-FEC	FC-FEC RS-FEC Disabled
25G	Breakout SR4	FC-FEC	FC-FEC RS-FEC Disabled

SLX 9150

Port Type	Media Type	Default FEC Mode	Supported FEC Modes
100G	Passive DAC	RS-FEC	RS-FEC Disabled
100G	SR4	RS-FEC	RS-FEC Disabled
100G	LR4	Disabled	RS-FEC Disabled
25G(Native)	DAC	Auto-Neg	RS-FEC FC-FEC Auto-Neg Disabled
25G(Native)	SFP	FC-FEC	RS-FEC FC-FEC Disabled

SLX 9540 and SLX 9640

Port Type	Media Type	Default FEC Mode	Supported FEC Modes
100G	Passive DAC	RS-FEC	RS-FEC Disabled
100G	SR4	RS-FEC	RS-FEC Disabled
100G	LR4	Disabled	RS-FEC Disabled

Software Download and Upgrade

For more information about the various methods of upgrading to SLX-OS 20.3.1, see the *Extreme SLX-OS Software Upgrade Guide*.

Image files

Download the following images from www.extremenetworks.com.

Image file name	Description
SLX-OS_20.3.1.tar.gz	SLX-OS 20.3.1 software
SLX-OS_20.3.1_mibs.tar.gz	SLX-OS 20.3.1 MIBS
SLX-OS_20.3.1.md5	SLX-OS 20.3.1 md5 checksum
SLX-OS_20.3.1-digests.tar.gz	SLX-OS 20.3.1 sha checksum
SLX-OS_20.3.1-releasenotes.pdf	Release Notes

SLX 9740

To / From	20.2.2x	20.2.3_CR	20.2.3	20.2.3a	20.3.1
20.2.1a	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use fullinstall
20.2.2x	Use the normal Firmware Download / coldboot*	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use fullinstall
20.2.3_CR	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use fullinstall
20.2.3	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot	Use fullinstall
20.2.3a	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use fullinstall
20.3.1	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	NA

*within the patches

Note:

For SLX-9740, downgrade to any 20.2.2x version needs to be done in two steps, with an intermediate step for downgrading to 20.2.2c and then to 20.2.x from 20.2.3x or higher

SLX 9540 and SLX 9640

To / From	20.2.2a	20.2.2b	20.2.3a	20.3.1
18r.2.00bc	For SLX 9540: 1. First upgrade to 20.1.2e using fullinstall. 2. Then upgrade to 20.2.2a using fullinstall.	For SLX 9540: 1. First upgrade to 20.1.2e using fullinstall. 2. Then upgrade to 20.2.2b using fullinstall.	For SLX 9540: 1. First upgrade to 20.1.2e using fullinstall. 2. Then upgrade to 20.2.3a using fullinstall.	For SLX 9540: 1. First upgrade to 20.1.2e using fullinstall. 2. Then upgrade to 20.3.1 using fullinstall.

To / From	20.2.2a	20.2.2b	20.2.3a	20.3.1
	For SLX 9640: Use fullinstall.	For SLX 9640: Use fullinstall.	For SLX 9640: Use fullinstall.	For SLX 9640: Use fullinstall.
20.1.1	For SLX 9540: 1. First upgrade to 20.1.2e using fullinstall. 2. Then upgrade to 20.2.2a using fullinstall. For SLX 9640: Use fullinstall.	For SLX 9540: 1. First upgrade to 20.1.2e using fullinstall. 2. Then upgrade to 20.2.2b using fullinstall. For SLX 9640: Use fullinstall.	For SLX 9540: 1. First upgrade to 20.1.2e using fullinstall. 2. Then upgrade to 20.2.3a using fullinstall. For SLX 9640: Use fullinstall.	For SLX 9540: 1. First upgrade to 20.1.2e using fullinstall. 2. Then upgrade to 20.3.1 using fullinstall. For SLX 9640: Use fullinstall.
20.1.2e, g	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.1a	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use fullinstall
20.2.2	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use fullinstall
20.2.2a	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use fullinstall
20.2.3a	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use fullinstall
20.3.1	Use fullinstall	Use fullinstall	Use fullinstall	NA

Notes:

- When upgrading from the 18r.1.00x and 18r.2.00a and earlier patches, upgrade first to 18r.2.00bx and then to 20.2.2x, which is a two-step upgrade procedure.
- The MCT upgrade procedure from 18r.2.00bc to 20.2.x is detailed in the *Extreme SLX-OS Software Upgrade Guide.*
- Because SLX 9540 is a bare metal device, use the "fullinstall" option to migrate between the SLX-OS 20.2.2x and SLX-OS 20.1.x releases.

- Because SLX9540 is moved to the bare metal mode in 20.2.1, use 'fullinstall' when migrating between SLX-OS 20.2.2x and SLX-OS 2.1.x releases.
- Downgrading from 20.3.x/20.2.2x/20.2.3x to 20.1.1 requires 'fullinstall' option for all platforms due to a change in glibc
- Downgrading from 20.3.x/20.2.2x/20.2.3x to 20.1.1 may not require a 2-step procedure.

SLX 9150 and SLX 9250

To / From	20.2.2x	20.2.3_CR	20.2.3	20.2.3a	20.3.1
20.1.1	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use fullinstall
20.1.2x	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use fullinstall
20.2.1x	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use fullinstall
20.2.2x	Use the normal firmware download / coldboot*	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use fullinstall
20.2.3_CR	Use the normal firmware download / coldboot	NA	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use fullinstall
20.2.3	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	NA	Use the normal firmware download / coldboot	Use fullinstall
20.2.3a	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	Use the normal firmware download / coldboot	NA	Use fullinstall
20.3.1	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	NA

*within the patches

SLX TPVM Support Matrix for 9150 and 9250

SLX Build	TPVM – Fresh Install Supported	EFA
20.2.2	TPVM-4.1.1	EFA-2.3
20.2.2a	TPVM-4.1.2	EFA-2.3.x
20.2.2b	TPVM-4.1.2	EFA-2.3.x
20.2.3	TPVM-4.2.2	EFA-2.4.x, EFA-2.3.x
20.2.3a	TPVM-4.2.3	EFA-2.4.x, EFA-2.3.x
20.3.1	TPVM-4.2.4	EFA-2.4.x

Upgrading TPVM from 4.0.x or 4.1.x to 4.2.x

Consider the following when upgrading TPVM from 20.1.2x , 20.2.2/x to 20.2.3

- SLX-OS 20.3.x, 20.2.3/x has TPVM 4.2.x. SLX-OS 20.1.2x variants have TPVM 4.0.x, which is based on Ubuntu18.
- To upgrade from TPVM 4.0 to latest, take the following steps:
  - Upgrade to SLX-OS 20.3.x, 20.2.3/x with existing TPVM continue to run
  - Remove existing TPVM using the **tpvm stop** and **tpvm uninstall** commands.
  - Copy the new tpvm-4.2.x-0.amd64.deb to /tftpboot/SWBD2900 on the SLX device.
  - Install TPVM 4.2.x using the **tpvm install** or **tpvm deploy** command.
  - Note that any additional TPVM disks, including vdb (implicitly created by TPVM 4.0.x or 4.1.x), are preserved with data during the previous steps.
  - If you need to remove the disks and start clean, then use the **tpvm uninstall force** command in place of **tpvm uninstall** in these steps. Alternatively, you can use **tpvm disk remove name <disk name>** to remove each additional disk manually. For example, `tpvm disk remove name vdb`.

Consider the following when you upgrade TPVM from releases earlier than SLX-OS 20.2.1 to SLX-OS 20.2.x:

- During startup, the latest TPVM creates an additional TPVM disk (named vdb) and creates an ext4 partition inside it (named vdb1).
- This additional disk partition is mounted at `/apps` inside TPVM.
- The disk uses all the free space available and reserved for TPVM (platform specific) TPVM disk quota.
- If you are running an older TPVM and have the additional TPVM disks already created, as a best practice make a backup and then delete the old disks. Use the **tpvm disk remove name <disk name>** command, which requires TPVM to be started if not already running.
- Uninstall the older TPVM using the **tpvm stop** and **tpvm uninstall** command.
- Install the new TPVM package using the **tpvm install** or **tvpm deploy** command.

Alternatively, after the SLX has been upgraded, you can use one command, **tpvm uninstall force**, to uninstall the TPVM and delete all the disks in the TPVM disk pool.

Important: The **tpvm uninstall force** process is destructive and irreversible, causing all TPVM data to be lost. The process works only if the TPVM is installed on the system.

Entire TPVM Data is automatically backed up in SLX while doing "**tpvm stop**" and restored during the next "**tpvm start**". However, only "/apps" partition and its data are preserved during "tpvm stop, uninstall" & "tpvm install". User installed applications in TPVM are not preserved. During TPVM upgrade, it is advised to take EFA data backup from TPVM using "**efa system backup**" and transfer the backup file outside TPVM to be completely safe. EFA release note document has a section for TPVM upgrade scenario and entire steps are mentioned in that document.

"**When EFA is installed on TPVM, "tpvm stop" followed by "uninstall" automatically takes only EFA database backup and not backup of EFA installation."**

Notes:

Security updates are added to the TPVM as part of 20.2.3a, there is a change in size of TPVM image to ~1.7 GB. This TPVM package contains Ubuntu security patches available up to 7th Feb 2021.

VDB disk size for EFA has changed to 52 GB and the remaining space is considered as reserved space, for the new TPVM installation.

Limitations and Restrictions

Port macro restrictions on breakout port configuration on SLX 9740

A port macro (PM) is a port group. Each PM has 4 ports, which are contiguous. PM0 has ports 0/1-0/4, PM1 has ports 0/5-0/8, PM2 has ports 0/9-0/12, and so on.

There are 9 PMs in the SLX 9740-40C and 18 PMs in the SLX 9740-80C. Only the odd ports can be split to 4x10G or 4x25G using the breakout cables: 0/1, 0/3, 0/9, 0/11, 0/13, 0/15, 0/17, 0/19, 0/21, 0/23, 0/25, 0/27, 0/29, 0/31, 0/33, 0/35, 0/37, 0/39, 0/41, 0/43, 0/49, 0/51, 0/53, 0/55, 0/57, 0/59, 0/61, 0/63, 0/65, 0/67, 0/69, 0/71, 0/73, 0/75, 0/77, and 0/79. Breaking out these ports using the breakout cables results in 72 interfaces for the SLX 9740-40 and 144 interfaces for the SLX 9740-80C.

- Ports 5-8 and 45-48 cannot be broken up and are supported only in 100G.
- For any PM, 40G and 10G ports cannot coexist with 25G ports. The following configurations are not supported:

PM Configuration	Examples
If any port is configured as 40G or 4x10G breakout, no 4x25G breakout is allowed unless the 40G ports will be removed as part of the breakout operation.	• If 0/3 or 0/4 is 40G, you cannot configure 0/1 as 4x25G breakout. • If 0/1 is 4x10G breakout, you cannot configure 0/3 as 4x25G breakout. • If 0/3 is 4x10G breakout, you cannot configure 0/1 as 4x25G breakout. • If 0/1 or 0/2 is 40G, you can configure 0/1 as 4x25G breakout because 0/1 and 0/2 will be removed. • If 0/3 or 0/4 is 40G, you can configure 0/3 as 4x25G breakout because 0/3 and 0/4 will be removed.

PM Configuration	Examples
If 4x25G breakout is configured, no 40G or 4x10G.	• If 0/1 is configured as 4x25G breakout, you cannot configure 0/3 or 0/4 as 40G. • If 0/1 is configured as 4x25G breakout, you cannot configure 0/3 as 4x10G breakout. • If 0/3 is configured as 4x25G breakout, you cannot configure 0/1 or 0/2 as 40G. • If 0/3 is configured as 4x25G breakout, you cannot configure 0/1 as 4x10G breakout.

FEC mode configuration

- The **no fec mode** configuration commands are not supported, users will not be able to go the default FEC mode due to this limitation, users can do explicit FEC configuration
- When user explicitly configures "**fec mode auto-negotiation**", the configuration is not shown in running-config(SLXOS-55857)

QoS

- PCP remarking is not supported for SLX 9740.
- Conformed and Violated counters are not supported for egress rate limiting for SLX 9740.
- Egress rate limiting in a Bridge Domain configuration is not supported for SLX 9740.
- DSCP-COS map is not work correctly for SLX 9740.

Others

- sflow sampling is not working for VLL when BUM rate limiting is applied on interface in SLX 9740
- sflow sample traffic to CPU is rate-limited. You can use the **qos cpu slot** command to change the rate.
- The **show running ip prefix-list <name>** command can take a long time to complete in a scaled prefix-list configuration.
- When Resilient Hashing CLI is enabled or disabled, or the *max-path* value is changed, it may cause **BFD sessions** in **related VRFs** to go down. However, **BFD sessions in unrelated VRFs will not be affected.**
- Resilient Hashing supports 16K flowset entries for SLX 9740, and 32K flowset entries for SLX 9150/9250.

Open Config Telemetry Support

- Secure channel (TLS) to access OperDB is not supported.
- User authentication not supported.
- gNMI calls through inband interfaces not supported.
- Usage of wild cards is not supported.
- gNMI SET is not supported.
- gNMI ON CHANGE subscription is not supported.

Open Defects

Parent Defect ID:	SLXOS-40754	**Issue ID:**	SLXOS-40754
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.1
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	BFD sessions will flap and bring down associated client sessions bind to it.		
Condition:	Maximum Supported IPv4 Multi-hop BFD session is 16. When IPv4 BFD Multi-hop session count exceeds 16, BFD sessions will flap.		

Parent Defect ID:	SLXOS-42488	**Issue ID:**	SLXOS-42488
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.1
Technology Group:	Other	**Technology:**	Other
Symptom:	"show running-config ip prefix-list <list-name>" on specific prefix-list sometimes does not work		
Condition:	issue is observed during highly scaled scale prefix-list configurations		
Workaround:	use show running-config ip prefix-list show running-config show running-config ip prefix-list | include <prefix-list-name>		

Parent Defect ID:	SLXOS-43141	**Issue ID:**	SLXOS-43141
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00a
Technology Group:	Other	**Technology:**	Other
Symptom:	TRCE-5006 RASLOG has been observed		
Condition:	During the reload		

Parent Defect ID:	SLXOS-43341	**Issue ID:**	SLXOS-43341
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.1
Technology Group:	Management	**Technology:**	Other
Symptom:	Rollback operation fails.		
Condition:	Rollback checkpoint has 'standard' ACL and running-config has 'extended' ACL (vice versa) with same name and applied to the same interfaces.		
Workaround:	Avoid using same name for standard and extended ACLs		
Recovery:	Manually configure ACLs and its application on interfaces		

Parent Defect ID:	SLXOS-44973	**Issue ID:**	SLXOS-44973
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.1
Technology Group:	IP Multicast	**Technology:**	Other
Symptom:	The node forwards the traffic on PIM SG-RPT prune received port which causes double traffic at the receiver.		
Condition:	1. RP and Source should be reachable in different paths from LHR. 2. The node should not have any PIM snooping (S,G) entry or IGMP version-3 entry in the corresponding VLAN, when it receives PIM SG-RPT prune. 3. The issue node should not have any local receivers for this group.		
Workaround:	Adding a local receiver to the node in question (i.e. the node that is forwarding traffic on PIM SG-RPT prune received port) will avoid it sending traffic to the LHR. Therefore double traffic will be avoided at the receiver		

Parent Defect ID:	SLXOS-45474	**Issue ID:**	SLXOS-45474
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.1
Technology Group:	Traffic Management	**Technology:**	Traffic Queueing and Scheduling
Symptom:	In some cases mcast drops are observed based on pkt size and number of replications.		
Condition:	Mcast drops will be observed when mcast traffic is sent with more replications along with unicast traffic.		
Workaround:	There is no traffic loss observed with following below numbers. 1 G link Egress (with 40% Unicast traffic) 48 OIFs (6 S,G's and 8 vlans (hosts) per S,G) without seeing loss. 10 G link Ingress/Egress (with 40% Unicast traffic) 54 vlan with 6 (S,G) Multicast groups per vlan 100G link Ingress/10G Egress (with 40% Unicast traffic) 42 vlan with 6 (S,G) Multicast groups per vlan		

Parent Defect ID:	SLXOS-46276	**Issue ID:**	SLXOS-46276
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.1
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	The remote end tunnel retains old VTEP IP when VTEP IP is changed at the local end		

Condition:	When tunnel VTEP IP is changed locally, some of the evpn IMR routes for old VTEP IP are not withdrawn. Hence old tunnel exists at remote end.
Workaround:	When VTEP IP is modified, please issue "clear bgp evpn neighbor all"

Parent Defect ID:	SLXOS-46419	**Issue ID:**	SLXOS-46419
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.1
Technology Group:	Monitoring	**Technology:**	Port Mirroring
Symptom:	QoS service-policy configuration is not allowed on a mirror destination port-channel.		
Condition:	Configure a port-channel as mirror destination and configure a service-policy under this port-channel.		
Workaround:	Remove mirror configuration and add service-policy under this port-channel. Reconfigure mirror session with this port-channel as mirror destination.		

Parent Defect ID:	SLXOS-46939	**Issue ID:**	SLXOS-46939
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.1
Technology Group:	IP Multicast	**Technology:**	PIM - Protocol-Independent Multicast
Symptom:	PIMoMCT : traffic loss may be seen for some of the Outgoing interfaces (OIF's) when 126 pim oif's are present		
Condition:	issue is seen with scaled deployment of PIM over MCT : traffic loss may be seen for some of the OIF's when 126 pim oif's are present		
Workaround:	configure less than 126 outgoing interfaces while using PIM Multicast with MCT		
Recovery:	configure less than 126 oif		

Parent Defect ID:	SLXOS-47644	**Issue ID:**	SLXOS-47644
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.1
Technology Group:	Security	**Technology:**	ACLs - Access Control Lists
Symptom:	OSPF neighborship doesn't go down after applying IP ACL on the interface		
Condition:	Applying IP ACL after OSPF neighborship up.		
Workaround:	Clear OSPF neighborship after IP ACL applied.		

Parent Defect ID:	SLXOS-48599	**Issue ID:**	SLXOS-48599
Severity:	S3 - Medium		

Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2
Technology Group:	Layer 2 Switching	**Technology:**	LAG - Link Aggregation Group
Symptom:	L2 traffic convergence takes more than sub-second convergence time during CCEP Port Channel Shut/no shut scenario when CCEP is multi-port port-channel		
Condition:	This issue will be observed only when we have more than 3 member ports in a CCEP port-channel interface, a scaled up VLAN configuration and user triggered events like Port-channel shut and no-shut are triggered.		

Parent Defect ID:	SLXOS-49440	**Issue ID:**	SLXOS-49440
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1
Technology Group:	Traffic Management	**Technology:**	Traffic Queueing and Scheduling
Symptom:	Traffic Manager Virtual output queue statistics are not getting updated		
Condition:	Show command doesn't update the value - " show tm voq-stat ingress-device ethernet 0/75 egress-port ethernet 0/51:3"		
Workaround:	Check TM stats, for traffic related stats update.		

Parent Defect ID:	SLXOS-50693	**Issue ID:**	SLXOS-50693
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1
Technology Group:	Traffic Management	**Technology:**	Rate Limiting and Shaping
Symptom:	Display summation of forwarded and dropped packets for the confirmed counter		
Condition:	Applying Egress Rate Limit on bridge domain and checking the statistics with "show stat bridge-domain x"		

Parent Defect ID:	SLXOS-51407	**Issue ID:**	SLXOS-51407
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1
Technology Group:	MPLS	**Technology:**	MPLS VPLS - Virtual Private LAN Services
Symptom:	VPLS statistics will not be accounted in underlying MPLS tunnel statistics		
Condition:	When both Bridge-domain statistics and MPLS ingress-tunnel-account statistics are enabled, Traffic egress in VPLS PW under the bridge-domain will not be accounted in underlying MPLS tunnel statistics in which the VPLS PW is established.		

Parent Defect ID:	SLXOS-51704	**Issue ID:**	SLXOS-51704
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	MBGP - Multiprotocol Border Gateway Protocol
Symptom:	BGP show command -"show ip bgp summary" output would display "no Memory for Attribute Entries"		
Condition:	BGP NLRI learned from one of the BGP sessions carries a path attribute with incorrect length		

Parent Defect ID:	SLXOS-51794	**Issue ID:**	SLXOS-51822
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1
Technology Group:	Traffic Management	**Technology:**	QoS - Quality of Service
Symptom:	Virtual output queue Statistics of Traffic manager Chip are not incrementing for priority traffic class.		
Condition:	CLI command: Traffic manager cmd "show tm voq-stat" is executed.		

Parent Defect ID:	SLXOS-51569	**Issue ID:**	SLXOS-51843
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1
Technology Group:	Monitoring	**Technology:**	OAM - Operations, Admin & Maintenance
Symptom:	On 9740-80, CFM session doesn't come-up when a bridge domain (BD) is configured with logical interfaces on breakout front panel ports (in the series 0/41-80). On BD deletion, the CFM sessions are up		
Condition:	Bridge domain (BD) is configured with logical interfaces on breakout front panel ports of the series 0/41-80.		
Recovery:	Deleting the bridge domain, or unbinding the logical interface from the bridge domain recovers the issue. Otherwise, use the front panel port series 0/1-40 for BDs.		

Parent Defect ID:	SLXOS-51789	**Issue ID:**	SLXOS-51912
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	BFD sessions are flapping.		
Condition:	IP address are re-used across VRF's which have overlapping VLANs between Bridge-domain and VLAN based tenants.		

Parent Defect ID:	SLXOS-51790	**Issue ID:**	SLXOS-51913
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	BFD sessions will flap when IP address is re-used across VRFs over CEP L3 Router-port interfaces or CEP L3 Port-channel interfaces.		
Condition:	IP address is re-used across VRFs over CEP L3 Router-port interfaces or CEP L3 Port-channel interfaces.		

Parent Defect ID:	SLXOS-49454	**Issue ID:**	SLXOS-52076
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1
Technology Group:	Management	**Technology:**	CLI - Command Line Interface
Symptom:	Sometimes, show running-config ip prefix-list <name> takes around 25 mins to display output		
Condition:	Issue is seen when the user is querying for a specific prefix-list while the device has highly scaled prefix list configuration		
Workaround:	Use "show running-config ip prefix-list" or "show ip prefix-list <name>"		

Parent Defect ID:	SLXOS-52212	**Issue ID:**	SLXOS-52212
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	Multi-VRF
Symptom:	Unexpected reload		
Condition:	ip import config for 2 vrfs uses route map which have identical prefix lists		

Parent Defect ID:	SLXOS-52329	**Issue ID:**	SLXOS-52329
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1a
Technology Group:	IP Multicast	**Technology:**	IGMP - Internet Group Management Protocol
Symptom:	The IGMP querier node does not receive IGMP joins on Multicast tunnel even though there are receivers present on other LVTEP. This causes IGMP group entry expiry after the time-out.		
Condition:	1. There should be MCT nodes acting as a leaf (LVTEP) and receiver should be connected to CCEP client or CEP port. 2. The MDT Rx path is on one MCT peer and MDT Tx path is on other		

	MCT peer. 3. IGMP Query should be received on Multicast tunnel. 4. IGMP report should land on the peer which is having MDT Rx path.
Workaround:	If Source or Receiver is connected to one of the MCT nodes, then it is recommended to configure IGMP snooping querier for the vlan or Bridge domain on both the MCT peers.

Parent Defect ID:	SLXOS-52506	**Issue ID:**	SLXOS-52506
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1a
Technology Group:	Management	**Technology:**	Other
Symptom:	Netconf request to configure ip prefix-list without providing sequence number fails and returns error.		
Condition:	Issue exists only for configuration via Netconf		
Workaround:	Workaround is to provide sequence number value in the Netconf request while configuring ip prefix-list		

Parent Defect ID:	SLXOS-52599	**Issue ID:**	SLXOS-52599
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1a
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	IPv6 Addressing
Symptom:	/127 prefix routes are accepted and traffic is dropped for them.		
Condition:	If route profile "ipv6-max-prefix64" is enabled on SLX 9150, or SLX 9250		

Parent Defect ID:	SLXOS-52839	**Issue ID:**	SLXOS-52839
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1a
Technology Group:	Traffic Management	**Technology:**	Rate Limiting and Shaping
Symptom:	Flapping of OSPFV3 sessions.		
Condition:	OSPFv3 session is configured and after that Ingress Port RL is applied. The rate configured is low compared to the data traffic that is ingressing.		
Workaround:	Do not use Ingress Port based RL. Instead configure ingress ACL based RL with "permit any any" as rule. This will filter similar to port based RL. In addition to that add another rule in ingress ACL based RL to match OSPF frames as given below. ipv6 access-list extended v6_any seq 5 deny 89 any any		

	seq 15 permit ipv6 any any The deny rule will make sure that OSPF frames are not rate limited.
Recovery:	Remove the Ingress Port RL.

Parent Defect ID:	SLXOS-52746	**Issue ID:**	SLXOS-53722
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1a
Technology Group:	Monitoring	**Technology:**	sFlow
Symptom:	S-flow will not work for Virtual leased lines interface		
Condition:	When Storm control is applied on Virtual leased lines interface		

Parent Defect ID:	SLXOS-53866	**Issue ID:**	SLXOS-53866
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	Other
Symptom:	Traffic flows utilizing L3 Prefixes (IPv4/IPv6) reachable through ECMP of VXLAN tunnels, may get disrupted in case of one of the VXLAN tunnel path goes away.		
Condition:	L3 Prefixes (IPv4/IPv6) reachable through ECMP of VXLAN tunnels.		

Parent Defect ID:	SLXOS-53945	**Issue ID:**	SLXOS-53945
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1
Technology Group:	IP Multicast	**Technology:**	PIM - Protocol-Independent Multicast
Symptom:	IP prefix list not working in SSM		
Condition:	Device need to configure the SSM protocol and enable the prefix list with starts with 232.x.x.x.		

Parent Defect ID:	SLXOS-53946	**Issue ID:**	SLXOS-53946
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2
Technology Group:	Other	**Technology:**	Other
Symptom:	BFD sessions may flap on a different interface when multiple interfaces are shutdown/no-shutdown together.		
Condition:	When multiple interfaces are shutdown/no-shutdown together.		
Workaround:	Perform shutdown/no-shutdown each interface separately.		

Parent Defect ID:	SLXOS-50340	**Issue ID:**	SLXOS-53958
Severity:	S3 - Medium		

Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.1.00d
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	IP Addressing
Symptom:	traceroute command may succeeds for disabled loopback IP address from peer		
Condition:	1) Configure /32 mask IP address for loopback interface. 2) Disable loopback interface using shut.		

Parent Defect ID:	SLXOS-54035	**Issue ID:**	SLXOS-54035
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2c
Technology Group:	Other	**Technology:**	Other
Symptom:	When 1 G port of SLX 9640 is connected to VDX 6740 on other end, the port continues to be in link up state.		
Condition:	User has given admin "shut" on the port.		

Parent Defect ID:	SLXOS-54106	**Issue ID:**	SLXOS-54106
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2c
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Unexpected reload		
Condition:	when we enable the MP tool for BGP module.		

Parent Defect ID:	SLXOS-54159	**Issue ID:**	SLXOS-54159
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.1.00b
Technology Group:	Management	**Technology:**	CLI - Command Line Interface
Symptom:	When show cpu proc command is executed after 100 days incorrect date format (order change in display) will be seen		
Condition:	No Specific condition observed to hit is issue.		

Parent Defect ID:	SLXOS-54162	**Issue ID:**	SLXOS-54162
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00bd
Technology Group:	Layer 2 Switching	**Technology:**	QinQ - IEEE 802.1Q
Symptom:	Destination packets are sending out with ZERO MAC address.		
Condition:	Hardware resources are completed when the scaled environment.		

Parent Defect ID:	SLXOS-54302	**Issue ID:**	SLXOS-54302
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	When the best path interface is made down after new best path selection (by changing weight value), traffic for some routes (around 8%) flows in non-best path for some time (around 1 min). After that it's started flowing through best path properly		
Condition:	This issue is observed only when the best path interface is made down immediately after changing the weight value		
Workaround:	This issue will not occur when the best path interface is made down after some time (i.e)15 mins after changing the weight value		
Recovery:	Traffic (around 8%) will recover from the issue state and start flowing through best path properly after 1 min.		

Parent Defect ID:	SLXOS-54304	**Issue ID:**	SLXOS-54304
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2
Technology Group:	Traffic Management	**Technology:**	Rate Limiting and Shaping
Symptom:	OSPF V2 session flaps when Ingress ACL based rate limiting is applied on the interface.		
Condition:	When Ingress ACL based RL is applied on the interface and the configured rate is low compared to the data traffic that is ingressing,		
Workaround:	In the Ingress ACL based RL, add another deny rule with higher precedence that will match OSPF frames. SLX# show running-config ip access-list extended any ip access-list extended any seq 10 deny 89 any any seq 20 permit ip any any seq 10 will make sure that OSPF frames are not rate limited.		
Recovery:	Same as workaround.		

Parent Defect ID:	SLXOS-54373	**Issue ID:**	SLXOS-54373
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1
Technology Group:	Management	**Technology:**	CLI - Command Line Interface
Symptom:	Interface MTU value not set		
Condition:	Sometimes a reload will not set MTU value		
Workaround:	Re-configure MTU value		

Parent Defect ID:	SLXOS-55051	**Issue ID:**	SLXOS-55051
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00c
Technology Group:	Monitoring	**Technology:**	sFlow
Symptom:	A number of fields such as Header Length, IP Size and Subnet Masks are reported incorrectly in the sflow samples		
Condition:	collecting sflow samples with a sflow collector		

Parent Defect ID:	SLXOS-55066	**Issue ID:**	SLXOS-55066
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2a
Technology Group:	Layer 2 Switching	**Technology:**	LAG - Link Aggregation Group
Symptom:	Traffic disruption, Link Flaps		
Condition:	LACP LAGs went down due to timeout		

Parent Defect ID:	SLXOS-55077	**Issue ID:**	SLXOS-55077
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Unexpected reload		
Condition:	MI6 memory leak is observed with various BGP operations		

Parent Defect ID:	SLXOS-55184	**Issue ID:**	SLXOS-55184
Severity:	S4 - Low		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2c
Technology Group:	Management	**Technology:**	CLI - Command Line Interface
Symptom:	While bring switch out of maintenance mode by executing "system maintenance turn-off" exec command, the output of "show system maintenance" command, it is shown as BGP "time out".		
Condition:	Issue is seen on disabling maintenance mode. No functional impact.		

Parent Defect ID:	SLXOS-55198	**Issue ID:**	SLXOS-55198
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Management	**Technology:**	Other
Symptom:	"no fec mode " CLI support is removed		
Condition:	"no fec mode " CLI support is removed and due to this the User will not be able to go to Default FEC mode on specified port.		

Workaround:	User can do Explicit FEC Configuration either Enable with appropriate FEC mode or Disable FEC for specified port.

Parent Defect ID:	SLXOS-55243	**Issue ID:**	SLXOS-55243
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Security	**Technology:**	HTTP/HTTPS
Symptom:	Extreme switch bootup logs reports(sometimes) unavailable file (/usr/sbin/httpd.0)		
Condition:	Issue is seen after restarting HTTP(S) server multiple times		

Parent Defect ID:	SLXOS-55248	**Issue ID:**	SLXOS-55248
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.1.00ch
Technology Group:	Other	**Technology:**	Other
Symptom:	Interface remain admin down with TX LED ON		
Condition:	Optic belongs to Finisar SN YDF2183000001HK		

Parent Defect ID:	SLXOS-55266	**Issue ID:**	SLXOS-55266
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Layer 2 Switching	**Technology:**	VLAN - Virtual LAN
Symptom:	On SLX 9740, ARP is not resolved and Source mac is not learned when the incoming IP packets are Priority Tagged (Vlan-0 with PCP bit set).		
Condition:	The connected device to the switch is configured to send Priority tagged packets on an untagged port. The source MACs are not learnt from IP packets on the switch.		
Workaround:	Use DSCP instead of using Priority tagging for QoS.		
Recovery:	No known recovery methods available.		

Parent Defect ID:	SLXOS-55278	**Issue ID:**	SLXOS-55278
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.1.00ch
Technology Group:	Security	**Technology:**	RADIUS
Symptom:	SLX may ignore RADIUS server response for REST API authentication		
Condition:	1.Configure one or more radius servers with "aaa authentication login radius local-auth-fallback" 2.Send REST query to SLX from any linux device (SLX chooses lower source UDP port numbers, hence it ignores such responses)		

Parent Defect ID:	SLXOS-55328	**Issue ID:**	SLXOS-55328
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00bc

Technology Group:	Monitoring	**Technology:**	RAS - Reliability, Availability, and Serviceability
Symptom:	Unexpected reload		
Condition:	Collecting the copy support when system is running at low memory		

Parent Defect ID:	SLXOS-55372	**Issue ID:**	SLXOS-55372
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	MPLS	**Technology:**	LDP - Label Distribution Protocol
Symptom:	"show mpls statistics ldp" command statistics will not increment on transit nodes for SLX9740 for transient session accounting.		
Condition:	MPLS XC statistics will not increment on transit nodes for SLX9740 if following transit-session-accounting config is enabled. ---------- router mpls policy transit-session-accounting		

Parent Defect ID:	SLXOS-55467	**Issue ID:**	SLXOS-55467
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00bd
Technology Group:	Management	**Technology:**	CLI - Command Line Interface
Symptom:	show running-config ip prefix-list <name> takes a long time to start displaying the output and elevates CPU		
Condition:	Issue is seen when the user is querying for a specific prefix-list while the device has highly scaled prefix list configuration		
Workaround:	Instead of “show running-config ip prefix-list <prefix-list-name>”, use commands as below, oshow ip prefix-list <prefix-list-name> oshow running-config ip prefix-list oshow running-config ip prefix-list | include <prefix-list-name>		

Parent Defect ID:	SLXOS-55554	**Issue ID:**	SLXOS-55554
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2_CVR
Technology Group:	Management	**Technology:**	CLI - Command Line Interface
Symptom:	On SLX 9250, Device may rarely boot to the ONIE boot prompt.		
Condition:	After "copy config default to startup" and followed by a reload.		

Parent Defect ID:	SLXOS-55569	**Issue ID:**	SLXOS-55569

Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2c
Technology Group:	Layer 2 Switching	**Technology:**	VLAN - Virtual LAN
Symptom:	L2 Loop not detected and blocked		
Condition:	Loop-detection feature doesn't detect and block L2 loop when provisioned on Ethernet or Port-channel interface		
Workaround:	Configure loop-detection on VLAN to which Ethernet or Port-channel is member. This will detect the loop and block it.		

Parent Defect ID:	SLXOS-55584	**Issue ID:**	SLXOS-55584
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.1.00aa
Technology Group:	Management	**Technology:**	Other
Symptom:	a)Unexpected reload b) Not possible to collect ssv as 100% /root directory used.		
Condition:	Not specific		

Parent Defect ID:	SLXOS-55586	**Issue ID:**	SLXOS-55586
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2a
Technology Group:	Monitoring	**Technology:**	sFlow
Symptom:	SFLOW not working as expected		
Condition:	monitoring inbound and outbound traffic with Netflow		

Parent Defect ID:	SLXOS-55755	**Issue ID:**	SLXOS-55755
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00a
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	on SLXOS 9540, BGP flowspec rules are not working for some source ports.		
Condition:	Action configured is Redirect to IP Nexthop in the flowspec rule.		

Parent Defect ID:	SLXOS-47629	**Issue ID:**	SLXOS-55844
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 17r.1.01aj
Technology Group:	Monitoring	**Technology:**	Syslog
Symptom:	RASLOG for optical temperature may display alarm even though the values are within boundary		
Condition:	During Port Up events		

Parent Defect ID:	SLXOS-55856	**Issue ID:**	SLXOS-55856
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2b
Technology Group:	Traffic Management	**Technology:**	Traffic Queueing and Scheduling
Symptom:	1.No Raslogs will be generated when “threshold-monitor Buffer poll <val> retry <val> limit <val> actions loginfo” is configured. 2."show qos tx-queue interface" shows incorrect buffer value		
Condition:	when command “threshold-monitor Buffer poll <val> retry <val> limit <val> actions loginfo” is configured and buffer usage exceeds the given limit specified ,raslogs will not be displayed. when command "show qos tx-queue interface" is configured incorrect total buffer value will be displayed.		

Parent Defect ID:	SLXOS-55857	**Issue ID:**	SLXOS-55857
Severity:	S1 - Critical		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2b
Technology Group:	Management	**Technology:**	CLI - Command Line Interface
Symptom:	Explicit user configuration of fec mode as "auto-negotiation" is not displayed in "show running-config"		
Condition:	When user configures fec-mode as "auto-negotiation" explicitly on an interface.		
Recovery:	There is no functional impact due to this behavior		

Parent Defect ID:	SLXOS-55863	**Issue ID:**	SLXOS-55863
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Other	**Technology:**	Other
Symptom:	Non-impacting warning message is seen while upgrading from 20.2.1a to 20.2.2a “warning: %post(redis-5.0.5-r0.core2_64) scriptlet failed, exit status 1”		
Condition:	Upgrade from 20.2.1a to 20.2.2a		

Parent Defect ID:	SLXOS-55879	**Issue ID:**	SLXOS-55879
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2d
Technology Group:	Security	**Technology:**	ACLs - Access Control Lists
Symptom:	Packets reach SLX control-plane, when they should be blocked		
Condition:	Packets coming to CPU via MCT ICL		

Parent Defect ID:	SLXOS-56079	**Issue ID:**	SLXOS-56079

Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	The switch might reload unexpectedly after a BGP process failure.		
Condition:	On SLX 9740, that is configured as a border leaf MCT node, and BGP is configured with BFD is enabled for all the BGP peering sessions. Sometimes on a reload of one of the border leaf switch, BFD sessions flap unexpectedly and can cause BGP session reset.		

Parent Defect ID:	SLXOS-56241	**Issue ID:**	SLXOS-56241
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00bd
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Console display of BGP DOWN with reason code as "TCP Connection Closed by Remote" instead of expected BGP DOWN message "Peer had exceeded the prefix limit"		
Condition:	Configure BGP maximum ip prefix allowed as 500 Violate above rule by redistributing routes greater than 500 from BGP peer		

Parent Defect ID:	SLXOS-56316	**Issue ID:**	SLXOS-56316
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2d
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	ICMP - Internet Control Message Protocol
Symptom:	Traceroute output fails to print first hop for the destination sometimes.		
Condition:	On traceroute initiator node, when we move nexthop ip address of destination between two interfaces.		

Parent Defect ID:	SLXOS-56317	**Issue ID:**	SLXOS-56317
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2d
Technology Group:	Monitoring	**Technology:**	Hardware Monitoring
Symptom:	Traffic egresses out of VXLAN tunnel modifies original carried TTL value with 254 as TTL, irrespective of the value of the incoming TTL.		
Condition:	Establish a VXLAN tunnel between two directly connected switches and initiate ping/traceroute from one of the node.		

Parent Defect ID:	SLXOS-56443	**Issue ID:**	SLXOS-56443
Severity:	S1 - Critical		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.1.00e
Technology Group:	MPLS	**Technology:**	MPLS VPLS - Virtual Private LAN Services
Symptom:	Unexpected restart of MPLSd with core file (without System reload		
Condition:	When peer interface is flapping carrying the LDP sessions.		

Parent Defect ID:	SLXOS-56456	**Issue ID:**	SLXOS-56456
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2d
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	Other
Symptom:	On SLXOS 9540, Fragmented packets with no UDP port number(non-initial packets) are getting re-directed in PBR policy incorrectly.		
Condition:	PBR policy enabled with UDP port match and with Fragmented packets.		

Parent Defect ID:	SLXOS-56468	**Issue ID:**	SLXOS-56468
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00bd
Technology Group:	MPLS	**Technology:**	IP over MPLS
Symptom:	Traffic latency in the network.		
Condition:	On SLX 9540, sometimes, HSLagtd process is showing high CPU utilization.		

Parent Defect ID:	SLXOS-56513	**Issue ID:**	SLXOS-56513
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2b
Technology Group:	MPLS	**Technology:**	BGP/MPLS VPN
Symptom:	On SLX 9740, End to End traffic drop seen when L3VPN packet generated from control plane.		
Condition:	Issue seen only for the packets generated from control plane and data traffic does not have any issues.		

Parent Defect ID:	SLXOS-56529	**Issue ID:**	SLXOS-56529
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2c
Technology Group:	MPLS	**Technology:**	BGP/MPLS VPN
Symptom:	L3VPN traffic egressing from SLX 9540, has wrong label in the packet		
Condition:	Issue is seen only for traffic generated from the control plane and data traffic doesn't have any issue.		

Parent Defect ID:	SLXOS-56538	**Issue ID:**	SLXOS-56538
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00bg
Technology Group:	Traffic Management	**Technology:**	QoS - Quality of Service
Symptom:	Functionality of Layer 3 ECMP with OSPF protocol is not working sometimes. Traffic goes only on one path.		
Condition:	Layer 3 ECMP enabled with OSPF on ve interfaces.		

Parent Defect ID:	SLXOS-56533	**Issue ID:**	SLXOS-56553
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2g
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Unexpected reload		
Condition:	BGP peer interface shut/no shut with BGP PIC configuration		
Workaround:	Try to avoid using BGP PIC configs		

Parent Defect ID:	SLXOS-56576	**Issue ID:**	SLXOS-56576
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Other	**Technology:**	Other
Symptom:	On SLX 9740, User upgrades software from 20.2.2a to 20.2.2b and device becomes unreachable when accessing through inband port.		
Condition:	Software upgrade through in-band port.		

Parent Defect ID:	SLXOS-56605	**Issue ID:**	SLXOS-56605
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00c
Technology Group:	Monitoring	**Technology:**	Hardware Monitoring
Symptom:	On SLX 9540, Output of operational interface counter statistics may display zero when traffic is alive		
Condition:	Display of interface counter statistics		

Parent Defect ID:	SLXOS-56635	**Issue ID:**	SLXOS-56635
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2d
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	IS-IS - IPv4 Intermediate System to Intermediate System
Symptom:	Default route is installed in level-2 ISIS router.		

Condition:	During interop scenario when the other vendor device installs a loopback interface(L2), on SLX this issue is seen.

Parent Defect ID:	SLXOS-56650	**Issue ID:**	SLXOS-56650
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00bd
Technology Group:	MPLS	**Technology:**	LDP - Label Distribution Protocol
Symptom:	On SLX 9540, sometimes packets whose length is more than 1500 size bytes are not forwarded, even though MTU is configured appropriately.		
Condition:	In MPLS network, SLX is configured as PE in the MPLS domain and SLX node is failing to transfer the packet with more than 1500 bytes.		

Parent Defect ID:	SLXOS-56694	**Issue ID:**	SLXOS-56694
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1
Technology Group:	IP Multicast	**Technology:**	IPv4 Multicast Routing
Symptom:	Some vendor routers do not recognize SLX router as a PIM neighbor, as SLX PIM hello packet contains Option 24 with length 0		
Condition:	SLX enabled with PIM and interworking with other vendor router.		

Parent Defect ID:	SLXOS-56718	**Issue ID:**	SLXOS-56718
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00bd
Technology Group:	Traffic Management	**Technology:**	Rate Limiting and Shaping
Symptom:	On SLX 9540, we may notice frame loss ratio of up to 9% during end-to-end traffic testing.		
Condition:	a) Send traffic with fixed size 1500 bytes with CBS as 1.3mb b) No rate limit configuration on transit nodes c) Customer nodes configured with bandwidth profile CIR 500 Mbps, CBS 1280 Kib, EIR 3 Mbps, EBS 8 Kib		

Parent Defect ID:	SLXOS-56743	**Issue ID:**	SLXOS-56743
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2b
Technology Group:	Management	**Technology:**	SNMP - Simple Network Management Protocol
Symptom:	SNMP dot1qTpFdbPort is showing as "0" on a dynamically learnt mac address. instead of the port number.		

Condition:	SNMP walk to OID dot1qTpFdbPort

Parent Defect ID:	SLXOS-56899	**Issue ID:**	SLXOS-56899
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.3.1
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Deleting a non-existing BGP neighbor through NETCONF request is adding partial config.		
Condition:	Only while deleting a non-existing BGP neighbor through NETCONF this issue is seen, Deleting an existing BGP neighbor though NETCONF works fine.		

Parent Defect ID:	SLXOS-56921	**Issue ID:**	SLXOS-56921
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2d
Technology Group:	IP Multicast	**Technology:**	IGMP - Internet Group Management Protocol
Symptom:	IGMP Snooping is not working as expected		
Condition:	Maximum IGMP Snooping enabled		

Parent Defect ID:	SLXOS-56958	**Issue ID:**	SLXOS-56958
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2g
Technology Group:	Other	**Technology:**	Other
Symptom:	Port may not be operational with admin UP		
Condition:	a) DUT should have connection with cisco device. b) DUT Interface connected to cisco configured with "speed auto-neg" and Cisco interface configured with "speed 100"		

Parent Defect ID:	SLXOS-56962	**Issue ID:**	SLXOS-56962
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00bd
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	"show ip bgp summary" shows negative values for bytes counters.		
Condition:	In scaled BGP scenario, when traffic is send to all routes "show ip bgp summary".		

Parent Defect ID:	SLXOS-56974	**Issue ID:**	SLXOS-56974
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2g
Technology Group:	IP Multicast	**Technology:**	IGMP - Internet Group Management Protocol
Symptom:	May encounter unexpected reload		
Condition:	There is no specific trigger for this but they can hit when SLX device with mcastd process consumes memory in incremental way.		

Parent Defect ID:	SLXOS-56998	**Issue ID:**	SLXOS-56998
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2b
Technology Group:	Layer 2 Switching	**Technology:**	LAG - Link Aggregation Group
Symptom:	Traffic impact on non port-channel interface		
Condition:	One of the member port is removed from Port-channel		

Parent Defect ID:	SLXOS-57029	**Issue ID:**	SLXOS-57029
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	Other
Symptom:	When fragmented pkts punted to CPU with high rate than it may cause protocol flaps.		
Condition:	When MTU violated pkts comes to CPU with high rate than it may lead to CPU congestion with protocol flaps.		

Parent Defect ID:	SLXOS-57073	**Issue ID:**	SLXOS-57073
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2f
Technology Group:	Monitoring	**Technology:**	Hardware Monitoring
Symptom:	show media output is not showing the transceiver value as expected. It is cosmetic issue and no functional impact.		
Condition:	When we have 25G SFP transceiver is inserted		

Parent Defect ID:	SLXOS-57142	**Issue ID:**	SLXOS-57142
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.1.00eb
Technology Group:	MPLS	**Technology:**	MPLS Traffic Engineering
Symptom:	May experience consistent RSVP session flap due to timeout on reservation message reception.		

Condition:	There is no specific trigger for this case, but could be chance of hitting this with mutliple RSVP session.
Workaround:	configure config-router-mpls-rsvp refresh-reduction summary-refresh

Parent Defect ID:	SLXOS-57173	**Issue ID:**	SLXOS-57173
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2a
Technology Group:	IP Multicast	**Technology:**	PIM - Protocol-Independent Multicast
Symptom:	Multicast traffic is not forwarding as expected through PIM interface		
Condition:	when(S,G)entries are absent under pim mcache on RP		

Parent Defect ID:	SLXOS-57176	**Issue ID:**	SLXOS-57176
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.1.00ch
Technology Group:	Layer 2 Switching	**Technology:**	LAG - Link Aggregation Group
Symptom:	Port channel is flapping once and stabilize . It is an interop issue		
Condition:	When it is connected with other vendor.		

Parent Defect ID:	SLXOS-57181	**Issue ID:**	SLXOS-57181
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3
Technology Group:	Security	**Technology:**	DoS (Denial of Service) protection
Symptom:	SLXOS is responding to unknown TCP ports		
Condition:	If an external router tries to send TCP packet to unknown TCP ports		

Parent Defect ID:	SLXOS-57233	**Issue ID:**	SLXOS-57233
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	Other
Symptom:	Receive ACL (RACL) deny is working but its logging feature is not working		
Condition:	RACL deny packets are dropped but not logged in RASLOG		

Parent Defect ID:	SLXOS-57272	**Issue ID:**	SLXOS-57272
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2g

Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	ICMP - Internet Control Message Protocol
Symptom:	None of the local (direct, loopback, self) IPv4 interfaces is responding to PING on both default-vrf and lab-vrf		
Condition:	VE interface connected to customer CDN cache is enabled on the device		

Parent Defect ID:	SLXOS-57246	**Issue ID:**	SLXOS-57428
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	BFD session establishment will be delayed by 75-120 seconds in SLX 9740.		
Condition:	After MCT/ICL link comes UP .		

Parent Defect ID:	SLXOS-57172	**Issue ID:**	SLXOS-57429
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Layer 2 Switching	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Sometimes BUM Traffic loss is seen for few VLANs, when traffic is sent over ICL from the MCT peer node.		
Condition:	On 8720, with MCT configuration, "cluster shut clients" is performed repetitively, on the alternate MCT peer nodes.		

Parent Defect ID:	SLXOS-57174	**Issue ID:**	SLXOS-57432
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Management	**Technology:**	Other
Symptom:	System memory usage increases slowly over time while being managed by EFA		
Condition:	Memory increase is seen when EFA frequently polls SLX for updates and health checks		

Parent Defect ID:	SLXOS-57293	**Issue ID:**	SLXOS-57433
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Layer 2 Switching	**Technology:**	LAG - Link Aggregation Group
Symptom:	Traffic loss can be seen for BUM traffic for some of the Port-Channel interfaces.		

Condition:	On SLX 9740, deletion of VLAN/BD many sometimes, with the Port-Channel still belonging to the VLAN/BD.
Workaround:	In case a VLAN/BD needs to be deleted, the Port-Channels under that VLAN/BD should be removed first and then delete the VLAN/BD.

Parent Defect ID:	SLXOS-56194	**Issue ID:**	SLXOS-57436
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3
Technology Group:	Management	**Technology:**	Other
Symptom:	On 8720 / SLX 9740, dual management ethernet interface configured with "ip address dhcp", IP address is not assigned when the management peer link is brought up after reload.		
Condition:	Management interface has "ip address dhcp" configuration and the management peer link is down. After reload, management peer link is brought up.		
Recovery:	Delete and configure "ip address dhcp" on the management interface.		

Parent Defect ID:	SLXOS-55211	**Issue ID:**	SLXOS-57437
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Management	**Technology:**	Other
Symptom:	Command is not successful and displays an error saying "Cannot resolve hostname"		
Condition:	Usage of "copy" command with FTP protocol and IPV6 address .		
Workaround:	Use IPv4 interface address		

Parent Defect ID:	SLXOS-57291	**Issue ID:**	SLXOS-57442
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	ARP - Address Resolution Protocol
Symptom:	Traffic drop for a few hosts in a VRF		
Condition:	The address family was removed for a vrf and the configuration was pushed again from the EFA. Traffic drop was observed for a few of the hosts under that VRF.		
Recovery:	Delete the VLAN, its associated VE and then reconfigure VLAN and VE		

Parent Defect ID:	SLXOS-56401	**Issue ID:**	SLXOS-57443
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3
Technology Group:	Other	**Technology:**	Other
Symptom:	The following Brocade branded 4x10G breakout DAC modules are not detected sometimes. The affected module SKU's are 40G-DACP-QSFP4SFP1M, 40G-DACP-QSFP4SFP3M, 40G-DACP-QSFP4SFP5M		
Condition:	Over a period of time, the issue is seen from a corruption in the EEPROM MSA programming		

Parent Defect ID:	SLXOS-57027	**Issue ID:**	SLXOS-57444
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	BFD sessions will flap once after reload.		
Condition:	On SLX 9740, reload of the MCT Border Leaf peer.		

Parent Defect ID:	SLXOS-55114	**Issue ID:**	SLXOS-57446
Severity:	S1 - Critical		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	Static Routing (IPv4)
Symptom:	L3 traffic drop of more than 1 second is observed on SLX-9740.		
Condition:	Maintenance mode enabled on one of the nodes in the MCT cluster or one of the nodes in the MCT cluster is rebooted.		

Parent Defect ID:	SLXOS-56725	**Issue ID:**	SLXOS-57447
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	Multi-VRF
Symptom:	Some traffic streams from the L3 Gateway to MCT CCEP Client have up to 800ms of traffic loss		
Condition:	In IP Fabric solution for centralized routing, reload of the border leaf router.		

Parent Defect ID:	SLXOS-56514	**Issue ID:**	SLXOS-57449
Severity:	S1 - Critical		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3

Technology Group:	Management	**Technology:**	CLI - Command Line Interface
Symptom:	"show interface ethernet slot/port" - CLI displaying previous FEC mode after reconnection as it has not updated by switch software.		
Condition:	Display FEC CLI is showing earlier FEC MODE when optics is swapped between SR and LR4.		
Workaround:	Configure the FEC mode by CLI.		

Parent Defect ID:	SLXOS-56032	**Issue ID:**	SLXOS-57455
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2b
Technology Group:	Management	**Technology:**	High Availability
Symptom:	Around 1-2 seconds packet loss for some VLAN interfaces in the list of TPVM interfaces only, whenever there is toggle between Active(OOB) - Standby (RME) path. (Dual Management Interface feature)		
Condition:	Multiple VLAN interfaces at TPVM		

Parent Defect ID:	SLXOS-57365	**Issue ID:**	SLXOS-57458
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	A few BFD session flaps maybe seen after ARP age out in SLX 8720.		
Condition:	Two node MCT topology with BFD sessions formed over bridge-domain and ARP entry for BFD neighbor ages out. After ARP ages out, ARP request is sent out but for few of the ARP's, unicast ARP reply packet is being dropped.		

Parent Defect ID:	SLXOS-57167	**Issue ID:**	SLXOS-57460
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	BFD sessions will flap once with MCT configuration in SLX 9740		
Condition:	When active-backup link fail over happens in server connecting to a MCT cluster.		

Parent Defect ID:	SLXOS-57261	**Issue ID:**	SLXOS-57461
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b

Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	Few BFD session flaps maybe seen at random intervals in SLX 9740		
Condition:	With 1000 BFD sessions		

Parent Defect ID:	SLXOS-57287	**Issue ID:**	SLXOS-57465
Severity:	S1 - Critical		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	ARP - Address Resolution Protocol
Symptom:	In BD configuration and multi-LIF configuration under a port-channel, ARP resolution failure results for some of the LIF's.		
Condition:	On SLX9740-80C, Bridge domain configuration with support of multiple logical interfaces under a given port-channel.		

Parent Defect ID:	SLXOS-57232	**Issue ID:**	SLXOS-57466
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Layer 2 Switching	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	Switch reload with OOM		
Condition:	On 8720, and in MCT configuration, ICL shut/noshut is triggered multiple times every 30 seconds continuously for more than 12 hours		

Parent Defect ID:	SLXOS-57371	**Issue ID:**	SLXOS-57471
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	Few BFD sessions will flap once during system bring up.		
Condition:	On 9740,during system bring up after reload.		

Parent Defect ID:	SLXOS-57368	**Issue ID:**	SLXOS-57474
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Management	**Technology:**	Software Installation & Upgrade
Symptom:	Unexpected reload of SLXOS.		
Condition:	Upgrade from of SLXOS software from 20.1.2x to 20.2.3x. And then user performs - "copy running-config startup-config", the switch reloads once. The device boots successfully subsequently. There is no		

	issue when the user does the same CLI configuration "copy running-config startup-config" again.
Workaround:	Perform a fullinstall of software upgrading from 20.1.2x to 20.2.3x.

Parent Defect ID:	SLXOS-57282	**Issue ID:**	SLXOS-57476
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3b
Technology Group:	Other	**Technology:**	Other
Symptom:	Sometimes breakout port links may not come up after software upgrade.		
Condition:	After software upgrade, and with breakout configuration enabled on the ports and ports are in default FEC auto-negotiation.		
Recovery:	Changing FEC mode to "FC-FEC" ports, or change it to FC-FEC and then reverting to auto-neg.		

Parent Defect ID:	SLXOS-57566	**Issue ID:**	SLXOS-57566
Severity:	S2 – High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.3.1
Technology Group:	Management	**Technology:**	Software Installation & Upgrade
Symptom:	Firmware upgrade from 20.2.2b to 20.3.1 takes long time.		
Condition:	During firmware upgrade (with fullinstall option) from 20.2.2b to 20.3.1, the time taken could be long and it depends on configuration scale. For example, 100K lines of configuration, time taken is expected to be around 2.5 - 3.0 Hrs.		

Parent Defect ID:	SLXOS-55578	**Issue ID:**	SLXOS-55578
Severity:	S3 – Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00bc
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	BFD sessions will flap continuously and bring down associated OSPF/BGP/OSPFv3 sessions.		
Condition:	On downgrading from 20.2.2a to 18r.2.00bc .		

Parent Defect ID:	SLXOS-57613	**Issue ID:**	SLXOS-57613
Severity:	S2 – High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.3.1
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	BGP process termination in SLXOS		

Condition:	If a user tries to remove multiple BGP RPKI SSH server configuration in an iteration
Workaround:	If user keeps some delay (5+ seconds) between each BGP RPKI SSH server configuration removal, BGP process termination won't be occur

Defects Closed with Code Changes

Parent Defect ID:	SLXOS-55123	**Issue ID:**	SLXOS-55123
Severity:	S3 - Medium		
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.1.00a
Technology Group:	Layer 2 Switching	**Technology:**	xSTP - Spanning Tree Protocols
Symptom:	User will observe that PVST/RPVST BPDUs are getting flooded on VPLS Bridge domain like normal multicast traffic, even though user has enabled 'bpdu-drop' feature using the CLI		
Condition:	CLI configuration 'bpdu-drop enable' doesn't drop PVST/RPVST packers, instead are flooded like normal BUM traffic on the Bridge domain.		
Workaround:	Provision “protocol spanning-tree rpvst” and disable spanning tree on all switchports using command “spanning-tree shutdown”.		

Parent Defect ID:	SLXOS-55536	**Issue ID:**	SLXOS-55536
Severity:	S2 - High		
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Layer 2 Switching	**Technology:**	Other
Symptom:	In VPLS topology, Packet egress out of AC logical interface will go out with dual tag when only one tag is expected		
Condition:	Issue seen after reloading the device with following combination of configuration Bridge-domain configured with VC-mode as tagged and Port-channel with a non-default TPID setting configured as logical AC interface for that bridge-domain.		
Workaround:	Use "RAW" vc-mode, if the bridge-domain has Port-channel with non-default TPID configured as logical interface.		
Recovery:	Remove and adding back the tag-type configuration under port-channel will recover the issue.		

Defects Closed without Code Changes

Parent Defect ID:	SLXOS-50687	**Issue ID:**	SLXOS-50687
Reason Code:	Feature/Function Not Supported	**Severity:**	S3 - Medium
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00a
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	IP Addressing
Symptom:	SLX silently drops traffic		
Condition:	1. SLX has two VEs (say ve-41 & ve-51) to which two devices are connected (say CISCO devices) and say the destination IP is reachable on a third VE. 2. ping to a destination on a third VE.		

Parent Defect ID:	SLXOS-51494	**Issue ID:**	SLXOS-51621
Reason Code:	Design Limitation	**Severity:**	S2 - High
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1
Technology Group:	Traffic Management	**Technology:**	QoS - Quality of Service
Symptom:	Traffic-Class-CoS Map applied on one egress interface may affect all the ports.		
Condition:	Create Traffic-Class-CoS Map and apply on an egress interface.		
Recovery:	Keep the default traffic-class-cos map, which maps 1-1 of traffic-class to egress CoS.		

Parent Defect ID:	SLXOS-52210	**Issue ID:**	SLXOS-52210
Reason Code:	Already Implemented	**Severity:**	S3 - Medium
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BGP4 - IPv4 Border Gateway Protocol
Symptom:	May notice non-functional(display issue only) impact issue. "show ip bgp neighbors <ip_address> advertised-routes" displays additional AS number along with local AS number.		
Condition:	BGP command "neighbor <ip> remove-private-as" should be configured under interface SLX(config-bgp-router)# neighbor 10.1.1.1 remove-private-as		

Parent Defect ID:	SLXOS-53998	**Issue ID:**	SLXOS-53998
Reason Code:	Not Reproducible	**Severity:**	S3 - Medium
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.1

Technology Group:	IP Multicast	**Technology:**	PIM - Protocol-Independent Multicast
Symptom:	Traffic will be forwarded on outgoing interface even though IP Multicast boundary is configured on it.		
Condition:	Configure IP multicast boundary on one of the outgoing interfaces.		

Parent Defect ID:	SLXOS-54076	**Issue ID:**	SLXOS-54076
Reason Code:	Already Implemented	**Severity:**	S2 - High
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.1.00ca
Technology Group:	MPLS	**Technology:**	MPLS VPLS - Virtual Private LAN Services
Symptom:	Few remote bridge MAC address may fail to get learn on suspected node and same got recovered after interface sh/noshut.		
Condition:	Not specific		

Parent Defect ID:	SLXOS-54256	**Issue ID:**	SLXOS-54256
Reason Code:	Replaced Extreme HW	**Severity:**	S3 - Medium
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.1.00ch
Technology Group:	Monitoring	**Technology:**	Hardware Monitoring
Symptom:	Interface remain admin down		
Condition:	Optic belongs to Finisar SN YDF117410000LZ8		

Parent Defect ID:	SLXOS-55155	**Issue ID:**	SLXOS-55155
Reason Code:	Not Reproducible	**Severity:**	S2 - High
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Management	**Technology:**	Other
Symptom:	Syslog packets on inband syslog connections comes with management ip as source ip instead of connected inband ip , when source interface is not configured		
Condition:	Issue is seen when we shut the configured interface and device comes up		
Workaround:	We have to remove the syslog interface config when we shut the interface and then reconfigure it again when we enable		

Parent Defect ID:	SLXOS-55427	**Issue ID:**	SLXOS-55427
Reason Code:	Design Limitation	**Severity:**	S2 - High
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Layer 2 Switching	**Technology:**	MCT - Multi-Chassis Trunking
Symptom:	In the MCT scenario, when the Maintenance mode is enabled on a MCT node, LACP disaggregation happens due to LAG time out,		

	instead of member port link down. This is happening on the other MCT peer node.
Condition:	Maintenance mode enable on MCT node

Parent Defect ID:	SLXOS-55466	**Issue ID:**	SLXOS-55466
Reason Code:	Working as Designed	**Severity:**	S2 - High
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	On SLX 9740, Few BFD over VxLAN Sessions in Border Leaf node flap and network convergence issue is seen		
Condition:	Reloading primary node in the MCT Cluster of the border leaf router.		

Parent Defect ID:	SLXOS-55485	**Issue ID:**	SLXOS-55485
Reason Code:	Working as Designed	**Severity:**	S2 - High
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2a
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	BFD - BiDirectional Forwarding Detection
Symptom:	On SLX 9740, Few BFD over VxLAN Sessions in Border Leaf node flap and network convergence issue is seen.		
Condition:	Shutdown of link connected from Border leaf to Spine.		

Parent Defect ID:	SLXOS-55558	**Issue ID:**	SLXOS-55558
Reason Code:	Network Tuning	**Severity:**	S2 - High
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.1.2d
Technology Group:	Layer 2 Switching	**Technology:**	LAG - Link Aggregation Group
Symptom:	LACP session failed.		
Condition:	SLX to be part of MCT topology and LACP enabled on the CCEP interface.		

Parent Defect ID:	SLXOS-55343	**Issue ID:**	SLXOS-55596
Reason Code:	Already Implemented	**Severity:**	S3 - Medium
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.2
Technology Group:	Other	**Technology:**	Other
Symptom:	Switch reboots after 48 hours of operation.		
Condition:	Certain Extreme branded optical modules can cause SLXOS to reload after an uptime of 48 hours or greater during optical data handling.		
Recovery:	Remove the optics to avoid crash.		

Parent Defect ID:	SLXOS-56061	**Issue ID:**	SLXOS-56061
Reason Code:	Not Reproducible	**Severity:**	S2 - High
Product:	SLX-OS	**Reported in Release:**	SLXOS 18r.2.00b
Technology Group:	Layer 3 Routing/Network Layer	**Technology:**	GTP - GPRS Tunneling Protocol
Symptom:	Below failure message, when we associate the router interface with Tunnel. "%Error: VE Already bound" even though it is not bound to any tunnel.		
Condition:	1.Create the "router interface VE 10" and bind it to Tunnel (mode to be ""gre ip"). 2.Delete the Tunnel without removing the VE configuration. 3.Create the deleted Tunnel and try to add "router interface VE 10" to hit the issue.		
Workaround:	Created new VE interface and bind with Tunnel.		
Recovery:	First remove the VE configuration before deleting the Tunnel.		

Parent Defect ID:	SLXOS-56446	**Issue ID:**	SLXOS-56446
Reason Code:	Not Reproducible	**Severity:**	S2 - High
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3
Technology Group:	Management	**Technology:**	SNMP - Simple Network Management Protocol
Symptom:	SNMP walk sometimes timing out for few oids.		
Condition:	Run snmp walk for very long hours with scaled config		
Workaround:	Do a repoll as issue is intermittent or poll the failed OIDs with individual snmpget commands		

Parent Defect ID:	SLXOS-56939	**Issue ID:**	SLXOS-56980
Reason Code:	Third Party Issue	**Severity:**	S1 - Critical
Product:	SLX-OS	**Reported in Release:**	SLXOS 20.2.3a
Technology Group:	Management	**Technology:**	High Availability
Symptom:	8720 is unreachable on both the management ports.		
Condition:	Above Symptom, may happen when upgrading from 20.2.3ab to 20.2.3a, along with the firmware upgrade, followed with the power cycle. Across the power cycle, if OOB-1 is down due to any reason, then SLXOS gets in to this condition.		
Workaround:	Ensure OOB-1 network link is healthy and peer switch port is 'UP', till SLXOS 20.2.3a boots up.		
Recovery:	Try Flapping OOB-1 link from peer switch port. If still not recovered, do power cycle of SLX Router.		