

November 2020



Extreme SLX-OS 20.2.2a

Release Notes

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

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Document History

Version	Summary of changes	Publication date
1.0	Initial version for 20.2.2a	November 2020

Preface

Getting Help

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- 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)
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- Content errors, or confusing or conflicting information
- Improvements that would help you find relevant information in the document
- Broken links or usability issues

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- Email us at documentation@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.

Release Overview

Release SLX-OS 20.2.2a provides the following features:

- Filter support for Fragmented and Non-Fragmented IPv4 and IPv6 packets through ACLs.
- Enable/disable SLX-OS configuration persistence across reboots.
- Resilient Hashing to ensure minimal disruption to traffic flow in case of a member link addition or failure in an LAG.
- ACL mirroring on port channel and VE (virtual ethernet) interfaces.
- Redundant Management Interface to provide fault resistant management access path to devices.
- Feature parity for the SLX 9740 with the 20.2.2a release software, with exceptions as described in [Limitations and Restrictions](#)
- Additional new features are described in [Software Features](#)

Behavior Changes

System Feature	Behavior Change
Auto-persistence Configuration Knob	All configurations are automatically preserved across reboot. The copy running-config startup-config command is used to take a backup of the configuration. This backup configuration is used only if the running-config 'database' becomes unusable for any reason. On execution of command "auto-persistence disable" the auto persistency of configuration get disabled and on reboot switch will come up with configuration present in startup database.
BGP Prefix-Independent-Convergence	After enabling or disabling the feature, user needs to do 'clear ip route all' for all the VRFs where BGP is enabled.

Software Features

The following key software features are added in the SLX-OS 20.2.2 release.

Feature Name	Supported SLX Platforms	Description
Resilient hashing	SLX 9150, SLX 9250 and SLX 9740	Resilient Hashing (RH) is a L3 forwarding feature which ensures minimal disruption to existing traffic flows in case of link failure or addition.
BFD over VXLAN/MCT	All Platforms	Traffic destined to host behind CCEP gets distributed to the corresponding LIF depending on the bridge domain ID, inner VLAN and outer VLAN.
Support fragment match on ACL	SLX 9540, SLX 9640 and SLX 9740	An access-list (ACL) is a collection of filters which define the action to take on packets which match the configured parameters in the filter. There are multiple matching criteria already supported in L3 ACL. This requirement is to filter traffic with IPv4

Feature Name	Supported SLX Platforms	Description
		/IPv6 fragmented and IPv4/IPv6 unfragmented packets in this release.
Dual management port Redundancy also known as Dual Management Interface introduced on 9740	SLX 9150, SLX 9250 and SLX 9740	This feature utilizes one of front panel port in Inband mode as redundant path for OOB Management Interface purposes. Valid for both SLX OS and TPVM.
Port channel and Virtual Ethernet interface mirroring with ACL support	SLX 9150, SLX 9250 and SLX 9740	In earlier releases, ACL based mirroring was supported only on physical ports as source ports. In this release, this has been extended to allow users to configure port-channel interfaces and VE as source for ACL based mirroring.
Heartbeat mechanism between SLX and EFA	All Platforms	This feature is for EFA to keep track of switch liveness. If switch misses heartbeat (in form of Netconf RPC) for a threshold amount of time then it will execute the configured action.
Auto Persistent (Startup DB) Configuration Knob	All Platforms	On execution of the “auto-persistence disable” command, SLX-OS configuration will no longer be persistent when the device reboots. The switch, on reboot, will come up with the configurations present in the startup database.
Static BFD Feature	All Platforms	The feature enables support for monitoring IPv4 and IPv6 static routes through BFD.
VEoVPLS Feature	SLX 9540, SLX 9640 and SLX 9740	VE over VPLS routes packets between the VPLS VE interface and all other IP interfaces outside of VPLS domain which reside on the Provider Edge (PE)
PFC and ECN support	SLX 9150, SLX 9250	PFC and ECN support is for traffic congestion management and are needed features for RoCE v2.

CLI Commands

New commands

- 1. Resilient Hashing**
 - 1.1. User VRF Case**


```
R1(config-vrf-vrf2)# do show run vrf vrf2
vrf vrf2
  resilient-hash ecmp enable
  resilient-hash max-path <8|16|64>
  address-family ipv4 unicast
  !
address-family ipv6 unicast
!
```

1.1. Default VRF case

```
R1(config)# do show run resilient-hash
resilient-hash ecmp enable
resilient-hash max-path <8|16|64>
```

2. Startup database

2.1. Display startup database

```
SLX# show startup-database
```

3. Heartbeat Manager

3.1) Config CLIs

```
SLX(config)# management-heartbeat manager
SLX(config-heartbeat-manager)# ?
Possible completions:
  action          Action taken by switch on expiration of threshold time
  describe        Display transparent command information do Run an
operational-mode command
  enable          Enable manageability heartbeat in admin up state
  exit            Exit from current mode
  help            Provide help information
  no              Negate a command or set its defaults
  pwd             Display current mode path
  threshold-timer Threshold timer for heartbeat miss
  top             Exit to top level and optionally run command
SLX(config-heartbeat-manager)#
```

3.2 Show commands

```
SLX# show management-heartbeat manager
Admin state: up
Operational state: up
Threshold time: 30 minutes
Action: Maintenance mode enable
Time to last heartbeat: 4 minutes
SLX#
```

4. Priority Flow control

4.1. QOS profile for PFC support

```
SLX(config)# hardware
```

```
SLX(config-hardware)# profile qos ?
Possible completions:
  lossless    set qos hardware lossless profile
  lossy       set qos hardware lossy profile
```

4.2. Enable/Disable PFC on an interface

```
[no] qos flowcontrol pfc <TC#> tx [on|off] rx [on|off]
```

5. Streaming Telemetry (a.k.a. OperDB Project)

```
SLX(config)# operational-state syncup enable ?
Possible completions:
  all          Enable oper db syncup for all modules
  bgp         Enable oper db syncup for bgp
  interface   Enable oper db syncup for interface
  platform    Enable platform specific oper db syncup
SLX(config)# operational-state syncup enable
```

Modified commands

1. Feature - Port channel mirroring with ACL support:

```
SLX(config)# acl-mirror source ethernet | port-channel <port channel
number> | ve <VE number> destination ethernet | port-channel
```

2. Feature - Support fragment match on ACL:

```
SLX(conf-ipacl-ext)#deny | permit ip-protocol source-ip | hostname
wildcard [ operator source-tcp/udp-port ] destination-ip | hostname [
icmp-type | num ] wildcard [ operator destination-tcp/udp-port ] [
precedence name | num ] [ tos name | num ] [ fragment ] | [ non-fragmented
]
```

3. Feature – Static BFD:

```
no ipv6 route static bfd dest-ipv6-address source-ipv6-address [
interface-type interface-name ] [ interval transmit-time min-rx receive-
time multiplier number ]
```

Parameters

dest-ipv6-address	Specifies the IPv6 address of BFD neighbor.
source-ipv6-address	Specifies the source IPv6 address.
interface-type	The type of interface, such as Ethernet or VE.
interface-name	The interface number or VLAN ID.
Interval transmit-time	Specifies the interval, in milliseconds, a device waits to send a control packet to BFD peers. Valid values range from 50 through 30,000 milliseconds. The default is 300 milliseconds.
min-rx receive-time	Specifies the interval, in milliseconds, a device waits to receive a control packet from BFD peers. Valid values range from 50 through 30,000 milliseconds. The default is 300 milliseconds.

multiplier number	Specifies the number of consecutive BFD control packets that can be missed from a BFD peer before BFD determines that the connection to that peer is not operational. Valid values range from 3 through 50. The default is 3.
-------------------	---

Usage Guidelines

```
no ipv6 route static bfd dest-ipv6-address source-ipv6-
address [ interface-type interface-name ]
```

Use the no form of this command without interval parameters to remove the configured BFD IPv6 static sessions.

```
no ipv6 route static bfd dest-ipv6-address source-ipv6-
address [ interface-type interface-name ] [ interval
transmit-time min-rx receive-time multiplier number ]
```

Use no form of the command with interval parameter to revert the interval to the default values.

The transmit-time and receive-time variables are the intervals needed by the local device. The actual values in use will be the negotiated values.

For single-hop static BFD sessions, the interval value is taken from the outgoing interface. For multi-hop BFD sessions, if the configured interval and min-rx parameters conflict with those of an existing session, the lower values are used.

For IPv6 static BFD sessions, if the BFD neighbor is link-local, the source IPv6 address must also be linklocal.

If an IPv6 BFD session is running for a link-local BFD neighbor, the interface-type and interface-name parameters are mandatory because the link-local address can be the same on multiple interfaces

4. Feature – Explicit Congestion Notification

4.1. Enabling ECN in RED profile

```
[no] qos red-profile <Profile#> min-threshold <DropStart%>
max-threshold <DropEnd%> drop-probability <MaxDropRate%>
[ecn <on|off>]
```

4.2. To show the red-profile and the ECN status

```
SLX(conf-if-eth-0/1)# do show qos red profiles 1
Red Profile 1
  Minimum Threshold: 10
  Maximum Threshold: 50
  Drop Probability: 100
  ECN: On
```

```
Activated on the following interfaces:
Eth 0/1 traffic-class: 0 drop-precedence: 03
```

4.3. To show the per-port ECN marked statistics

```
SLX# show qos red statistics interface eth 0/1
Statistics for interface: Eth 0/1
  Port Statistics:
    Packets Dropped: 147, Queue Full Drops: 222,
ECN Marked: 234
```

5. Feature - Priority Flow Control

```
SLX# show qos flowcontrol stats int eth 0/1
Interface Ethernet 0/1
```

	TX	RX
-----	-----	-----
PAUSE Frames:	565856	441122
PFC Pri0 Frames:	565856	441122
PFC Pri1 Frames:	565856	441122
PFC Pri2 Frames:	565856	441122
PFC Pri3 Frames:	565856	441122
PFC Pri4 Frames:	565856	441122
PFC Pri5 Frames:	565856	441122
PFC Pri6 Frames:	565856	441122
PFC Pri7 Frames:	565856	441122

Removed commands

- None

Hardware Support

Supported devices and software license

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

Supported power supplies, fans, and rack mount kits for the SLX 9740

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

Supported optics and cables

For a complete list of all supported optics for the SLX 9740, see **Extreme Optics** at <https://optics.extremenetworks.com/>.

Supported FEC modes

SLX 9250

Port Type	Media Type	Default FEC Mode	Supported FEC Modes
100G	100G Passive DAC	RS-FEC	RS-FEC Disabled
100G	100G SR4	RS-FEC	RS-FEC Disabled
100G	100G LR4	Disabled	RS-FEC Disabled
25G	100G Passive DAC breakout to 4 x 25G	FC-FEC	FC-FEC RS-FEC Auto-Neg * Disabled

**** Auto neg functionality is not supported in this release***

Port Type	Media Type	Default FEC Mode	Supported FEC Modes
100G	100G Passive DAC	RS-FEC	RS-FEC Disabled
100G	100G SR4	RS-FEC	RS-FEC Disabled
100G	100G LR4	Disabled	RS-FEC Disabled
25G **	100G Passive DAC breakout to 4 x 25G	FC-FEC	FC-FEC Disabled

**** RS-FEC for 25G is not supported on 9740 Platform.**

Software Download and Upgrade

For more information about the various methods of upgrading to SLX-OS 20.2.2a, see the *Extreme SLX-OS Software Upgrade Guide*.

Image files

Download the following images from www.extremenetworks.com.

Image file name	Description
slxos20.2.2a.tar.gz	SLX-OS 20.2.2a software
slxos20.2.2a_mibs.tar.gz	SLX-OS 20.2.2a MIBS
slxos20.2.2a.md5	SLX-OS 20.2.2a md5 checksum
slxos20.2.2a-digests.tar.gz	SLX-OS 20.2.2a sha checksum
slxos-20.2.2a-releasenotes.pdf	Release Notes

SLX 9740

To	20.2.2a
From	
20.2.1a	Use the normal FWDL
20.2.2	Use the normal FWDL

SLX 9540 and SLX 9640

To	20.2.2a
From	
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 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.
20.2.1a	Use the normal FWDL
20.2.2	Use the normal FWDL

Notes:

- When upgrading from the 18r.1.00x and 18r.2.00a and earlier patches, upgrade first to 18r.2.00bx and then to 20.2.2a, 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 20.2.2x to 20.1.1 requires 'fullinstall' option for all platforms due to a change in *glibc*
- Downgrading from 20.2.2x to 20.1.1 may not require a 2 step procedure.

SLX 9150 and SLX 9250

From \ To	20.2.2a
20.1.1	Use the normal FWDL
20.1.2x	Use the normal FWDL
20.2.1a	Use the normal FWDL
20.2.1	Use the normal FWDL
20.2.2	Use the normal FWDL

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

Upgrading TPVM from 3.0. or 4.0.x to 4.1.x

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

- SLX-OS 20.2.2/x has TPVM 4.1.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 20.2.2/x with existing TPVM continue to run
 - Remove existing TPVM using the **tpvm stop** and **tpvm uninstall** commands.
 - Copy the new `tpvm-4.1.x-0.amd64.deb` to `/tftpboot/SWBD2900` on the SLX device.
 - Install TPVM 4.1.x using the **tpvm install** or **tpvm deploy** command.
 - Note that any additional TPVM disks, including `vdb` (implicitly created by TPVM 3.0.0/4.0.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 **tpvm 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.

TPVM Data is automatically backed up in SLX while doing “**tpvm stop**” and restored during the next “**tpvm start**”. 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.

Note: TPVM backup takes only database backup and not application backup

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.	<ul style="list-style-type: none">• 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.
If 4x25G breakout is configured, no 40G or 4x10G.	<ul style="list-style-type: none">• 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

- Auto Negotiation on 25gig DAC cable for SLX-9150/SLX-9250 is not supported
- 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
- The Default FEC Mode on 25G Breakout port with 100G SR Extreme Qualified Optics is shown as “Disabled”, internally the FEC is enabled as FC-FEC (Refer defect disclosure for SLXOS-55483)
- On Reload, the FEC mode on 25G Breakout port in SLX 9250 will display as Auto-Neg if the link is in down state. If the link is in upstate, then proper FEC mode will be displayed (Refer defect disclosure for SLXOS-55497)

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

- Tag-type is supported for SLX 9740. The default TPID and one more TPID are allowed.
- Sflow sampling is not working for VLL when BUM rate limiting is applied on interface in SLX9740
- 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, **BDF sessions in unrelated VRFs will not be affected.**

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-37598	Issue ID:	SLXOS-37598
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00
Technology Group:	Monitoring	Technology:	Hardware Monitoring
Symptom:	Unexpected BFD session flap may be experienced with 1 million IPv6 BGP routes on SLX 9640/SLX9540		
Condition:	Bringing down an interface cause other BFD session flap in scaled IPv6 Scenario		

Parent Defect ID:	SLXOS-41353	Issue ID:	SLXOS-41353
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Security	Technology:	TACACS & TACACS+
Symptom:	User role is not getting updated in audit logs for external users (Tacacs+/Radius/LDAP)		
Condition:	When login happens through NetConf and external (Tacacs+/Radius/LDAP) authentication has been configured		

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 doesn't 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-42558	Issue ID:	SLXOS-42558
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Security	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	Not able to login via telnet with radius credentials		
Condition:	On deleting vrf under ethernet interface which is configured as source-interface for Radius		

Workaround:	workaround is to remove/detach source interface config for RADIUS, Then, do the VRF related changes for the source interface and then re-attach it back to RADIUS.
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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 occasionally.		
Condition:	During the reload of SLX 9640.		

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		

Parent Defect ID:	SLXOS-43354	Issue ID:	SLXOS-43354
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Other	Technology:	Other
Symptom:	show running-config route-map <route-map-name> on some specific route-map does give any output		
Condition:	issue is observed during highly scaled scale route-map configurations		
Workaround:	use 1. show running-config 2. show running-config route-map 3. show running-config route-map include <route-map-name>		

Parent Defect ID:	SLXOS-43409	Issue ID:	SLXOS-43409
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Security	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	Certain REST operational queries may fail with “500 Internal Server Error” when TACACS+ command authorization is enabled.		
Condition:	This issue occurs when ‘aaa authorization command tacacs+’ is configured.		

Workaround:	Remove 'aaa authorization command tacacs+' configuration or use alternative methods like CLI/NETCONF (instead of REST) to retrieve the operational data that is having this issue.
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Parent Defect ID:	SLXOS-43527	Issue ID:	SLXOS-43527
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00
Technology Group:	Management	Technology:	CLI - Command Line Interface
Symptom:	"nssa no-redistribution" and "nssa translator-always" commands does not show up		
Condition:	When trying to configure "nssa no-redistribution" and "nssa translator-always"		

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:	<p>There is no traffic loss observed with following below numbers.</p> <p>1 G link Egress (with 40% Unicast traffic) 48 OIFs (6 S,G's and 8 vlans (hosts) per S,G) without seeing loss.</p> <p>10 G link Ingress/Egress (with 40% Unicast traffic) 54 vlan with 6 (S,G) Multicast groups per vlan</p> <p>100G link Ingress/10G Egress (with 40% Unicast traffic) 42 vlan with 6 (S,G) Multicast groups per vlan</p>		

Parent Defect ID:	SLXOS-45634	Issue ID:	SLXOS-45634
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Management	Technology:	Other
Symptom:	In rare scenario, While doing (/restconf/data) datastore query for few REST commands, unwanted output is observed on console		
Condition:	issue is observed while executing top level REST query		

Parent Defect ID:	SLXOS-45991	Issue ID:	SLXOS-45991
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 STP BPDUs are getting flooded on VPLS Bridge domain like normal multicast traffic, even though user has enabled 'bpdu drop' feature using the CLI		
Condition:	'bpdu drop' configured on VPLS BD is not behaving as expected, where the BPDU should be dropped instead of flooding when 'bpdu drop ' is enabled on the VPLS bridge domain.		

Parent Defect ID:	SLXOS-46252	Issue ID:	SLXOS-46252
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	MPLS	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	PW preferential Status may not display the correct role and match with DF role of bridge-domain in MCT VPLS scenario on SLX9540 platform		
Condition:	This may occur when there are many flaps for VPLS and MCT		
Workaround:	Remove and re-add configuration of bridge-domain or Remove and re-add bridge-domain from MCT member bridge-domain configuration		

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 OIFs are present		
Condition:	issue is seen with scaled deployment of PIM over MCT : traffic loss may be seen for some of the OIFs when 126 pim OIFs are present		
Workaround:	configure less than 126 outgoing interfaces while using PIM Multicast with MCT		

Parent Defect ID:	SLXOS-47226	Issue ID:	SLXOS-47226
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Layer 2 Switching	Technology:	VLAN - Virtual LAN
Symptom:	A message "port_vlan_duplication_detected" may be seen on console session.		
Condition:	User was able to assign same VLAN to Logical-interface, and its main interface.		

Parent Defect ID:	SLXOS-47395	Issue ID:	SLXOS-47395
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Layer 2 Switching	Technology:	LAG - Link Aggregation Group
Symptom:	After a full install upgrade if a partner link speed mismatch is detected Port-channel member links will flap a couple of times and then transition to administrate down state		
Condition:	SLX LAG interface bundled with copper ports goes admin-down when the link detects a speed mismatch (auto negotiation enabled) as part of "auto err-disable" feature on the remote VDX box.		
Workaround:	perform "no shutdown" on LAG member to bring up online(assuming speed matches with partner link).		

Parent Defect ID:	SLXOS-47423	Issue ID:	SLXOS-47423
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Traffic Management	Technology:	Rate Limiting and Shaping
Symptom:	DHCP traffic rate limiting is not working in SLX9150/9250 when DHCP snooping and ACL RL is applied on the same hierarchical interface.		
Condition:	Issue seen when DHCP snooping and ACL RL is applied on the same hierarchical interface.		

Parent Defect ID:	SLXOS-47472	Issue ID:	SLXOS-47472
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Layer 2 Switching	Technology:	VLAN - Virtual LAN
Symptom:	Mac addresses age out earlier than the configured mac aging time		
Condition:	Mac address ages out 20% earlier than the configured age time in the system.		
Workaround:	Configuring mac address aging time more than 20% of planned mac address age out time adjust the deviation of early aging cycle.		

Parent Defect ID:	SLXOS-47538	Issue ID:	SLXOS-47538
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 17r.1.01aj
Technology Group:	Network Automation and Orchestration	Technology:	NETCONF - Network Configuration Protocol
Symptom:	REST runcmd operation fails with HTTP status code 406 or 502		
Condition:	Whenever upgrade and HA failover are performed		
Recovery:	To copy the runCmd.py file into standby MM DCMD scripts path before HA failover		

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 or rACL.		
Condition:	Applying IP ACL after OSPF neighborship up.		
Workaround:	Clear OSPF neighborship after IP ACL applied.		

Parent Defect ID:	SLXOS-48195	Issue ID:	SLXOS-48195
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00
Technology Group:	Layer 2 Switching	Technology:	VLAN - Virtual LAN
Symptom:	When trying to configure on VLAN 4091 to 4095, the configuration is not accepted. Configuration is not allowed on reserved VLANs 4091 to 4095.		
Condition:	When trying to configure on VLAN 4091 to 4095		
Workaround	Use all other VLANs other than VLAN 4091 to 4095		

Parent Defect ID:	SLXOS-48758	Issue ID:	SLXOS-48758
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:	IP Load Sharing or BGP Multipathing not being performed.		
Condition:	BGP is configured with multiple ECMP paths.		

Parent Defect ID:	SLXOS-48813	Issue ID:	SLXOS-48813
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	MPLS	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	Polarization in load-balancing of VPLS packets across Port-channel members in MPLS transit nodes		
Condition:	Issue is seen when underlay (inner-ethernet) DA MAC of a VPLS packet starts with value 4 or 6.		
Workaround:	Configure flow-label feature in VPLS PE nodes for better hashing.		

Parent Defect ID:	SLXOS-48868	Issue ID:	SLXOS-48868
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2
Technology Group:	Management	Technology:	CLI - Command Line Interface
Symptom:	Auditlog doesn't capture configuration failures.		
Condition:	When multiple VLANs are being configured using vlan-range command, the auditlog may not log the errors, if there are any failures for individual vlans.		

Parent Defect ID:	SLXOS-49091	Issue ID:	SLXOS-49091
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Traffic Management	Technology:	QoS - Quality of Service
Symptom:	Clear VoQ stats command does not clear the counters on SLX-9740		
Condition:	Happens in all conditions.		

Parent Defect ID:	SLXOS-49371	Issue ID:	SLXOS-49371
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2
Technology Group:	Network Automation and Orchestration	Technology:	NETCONF - Network Configuration Protocol
Symptom:	In scaled scenario, querying for RPC get-ip-interface using NETCONF/REST returns error.		
Condition:	User will observe this behavior when more than 5000 VE/SVI interfaces are configured on the device.		

Parent Defect ID:	SLXOS-49399	Issue ID:	SLXOS-49399
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00ch
Technology Group:	Monitoring	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	"show media" command doesn't display optical encoding string for particular optics as per the IEEE standard		
Condition:	When QSFP28 optic has encoding index "5"		

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-49610	Issue ID:	SLXOS-49610
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	DHCP - Dynamic Host Configuration Protocol
Symptom:	When a checkpoint is taken with "ipv6 dhcp relay source interface" configuration, and applied back at a later point of time, the "ipv6 dhcp relay source-interface" config throws an error.		
Condition:	Issue is seen when a checkpoint is taken and applied on the "dhcp relay source interface configuration". Not observed with manual addition/removal of the configuration.		
Workaround:	Apply/delete the dhcp relay source interface configuration manually.		

Parent Defect ID:	SLXOS-49668	Issue ID:	SLXOS-49668
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00ca
Technology Group:	Monitoring	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	show audit log displays single log		
Condition:	Rare scenario, when audit log file got corrupted		

Parent Defect ID:	SLXOS-49674	Issue ID:	SLXOS-49674
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00b
Technology Group:	Security	Technology:	ACLs - Access Control Lists
Symptom:	Invalid warning logs come on the console " Key type(Destination Port) is not supported".		
Condition:	If Ipv4 ACL rule has same destination and source port, warning log comes on console.		

Parent Defect ID:	SLXOS-49800	Issue ID:	SLXOS-49800
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Traffic Management	Technology:	Traffic Queueing and Scheduling
Symptom:	TM discard counter does not increment when VPLS/VLL traffic gets dropped due to inactive PWs.		
Condition:	When VPLS/VLL traffic gets dropped due to inactive PWs.		

Parent Defect ID:	SLXOS-50020	Issue ID:	SLXOS-50020
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Some of the ND entries learned from normal leaf may have MACs unresolved on border leaf switches in Centralized routing deployments.		
Condition:	When a MAC is moved from EVPN to local MCT node, the mac is stuck as CCR on MCT and the mac didn't get advertised to BGP.		

Parent Defect ID:	SLXOS-50117	Issue ID:	SLXOS-50117
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	OSPF - IPv4 Open Shortest Path First
Symptom:	When multiple summary addresses with same prefix but different subnets are configured and unconfigured, one summary route is not removed in the system		
Condition:	Multiple summary addresses with same prefix but different subnets should be configured. Check the aggregated summary routes. Then unconfigure all the summary routes, and user will observe One aggregate route is still present in the system.		

Parent Defect ID:	SLXOS-50130	Issue ID:	SLXOS-50130
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2
Technology Group:	Management	Technology:	Other
Symptom:	On rare occasion, "WaveManagementServer::connect : Error" trace message displayed on switch's console session during device bring up. No functionality impact observed because of this trace message as system retries, connect and recover internally.		
Condition:	The error message may appear on console during switch boot up.		

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-48753	Issue ID:	SLXOS-50786
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	Other
Symptom:	On SLX 9540/ SLX 9640, In scaled multicast deployments, traffic loss might be observed due to invalid next-hop entry in hardware after repeated interface disable/enable operation.		
Condition:	When disabling/enabling VE interfaces multiple times using a script over night with full Internet routes (~800K routes) and multicast routes (4000+ multicast cache entries) in the system.		
Workaround:	Disable and enable the interface with a delay of 10 sec for medium scale environment.		

Parent Defect ID:	SLXOS-50793	Issue ID:	SLXOS-50793
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00ch
Technology Group:	Monitoring	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	"show media" may display encoding string that doesn't comply with the IEEE standard for certain optics.		
Condition:	When 100G-LR4 QSFP28 optic has encoding value 5 Ex: show media interface ethernet x/y Encoding 5 IEEE 802.3ab		

Parent Defect ID:	SLXOS-50873	Issue ID:	SLXOS-50873
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2a
Technology Group:	Security	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	Incorrect role name is displayed in "show users" command output and audit logs.		
Condition:	Issue is seen when, 1. OAuth2 mode of authentication is configured on SLX device. 2. SLX device is accessed by NETCONF clients.		

Parent Defect ID:	SLXOS-50924	Issue ID:	SLXOS-50924
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Management	Technology:	Other
Symptom:	10Gbps SR SFP+ does not link up when connected to an SLX 9250 port using a QSFP_SFPP_ADPT adapter.		
Condition:	Only 10BaseT SFP is qualified for use in SLX 9250 on SLXOS 20.1.1x.		
Workaround:	The following optical media have been qualified for use in SLX 9250 ports using a QSFP_SFPP_ADPT adapter: 1. 1000BaseT GBIC SFP with port configuration as "breakout mode 4x1g" 2. 10G SR SFP+ with port configuration as "breakout mode 4x10g" In [1] and [2] above, the first subport i.e. 0/X:1 is used. The rest of the sub ports are not used.		
Recovery:	Not applicable		

Parent Defect ID:	SLXOS-50925	Issue ID:	SLXOS-50925
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Layer 3 Routing/Network Layer	Technology:	MBGP - Multiprotocol Border Gateway Protocol
Symptom:	SLX reboots after an unexpected termination of BGP daemon		
Condition:	BGP peers are configured with inbound route-map with multiple permit instances. In some scenarios when one or more route-map instances are added/deleted to/from the route-map, an unexpected termination of the BGP daemon is observed causing the SLX to reboot warm		

Parent Defect ID:	SLXOS-50980	Issue ID:	SLXOS-50980
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2a
Technology Group:	Security	Technology:	HTTP/HTTPS
Symptom:	Secure access to SLX device through Hypertext Transfer Protocol Secure (HTTPS) service generates duplicate Transport Layer Security(TLS) audit logs on SLX device.		
Condition:	<p>qlssue is seen when,</p> <ol style="list-style-type: none"> 1. HTTPS is enabled on SLX device. 2. SLX device is accessed by HTTPS clients. <p>Example, RESTCONF connection request to SLX device to gain access.</p>		

Parent Defect ID:	SLXOS-51131	Issue ID:	SLXOS-51131
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00bd
Technology Group:	Layer 3 Routing/Network Layer	Technology:	VRRPv2 - Virtual Router Redundancy Protocol Version 2
Symptom:	High CPU and protocol flapping.		
Condition:	When data IP traffic is sent with VRRP Protocol number then packets are trapped to CPU and may congest CPU protocol queue.		
Workaround:	<pre> Create policy map:- policy-map pip class cip police cir 0 ! ! class-map cip match access-group x20 ! ip access-list extended x20 seq 10 permit 112 any host 224.0.0.18 ! Apply on control plane:- control-plane service-policy in pip ! </pre>		

Parent Defect ID:	SLXOS-51200	Issue ID:	SLXOS-51200
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00b
Technology Group:	Layer 3 Routing/Network Layer	Technology:	Static Routing (IPv4)
Symptom:	Ping traffic latency observed on the network		
Condition:	<ol style="list-style-type: none"> 1. Enabled the network with MCT cluster configuration. 2. IP MTU is configured with default value of 1500bytes CEP port(egress). 3. Ping traffic(1495-1500 bytes) should reach on CCEP interface(ingress). 		

Parent Defect ID:	SLXOS-51214	Issue ID:	SLXOS-51214
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00c
Technology Group:	Management	Technology:	Software Installation & Upgrade
Symptom:	The SLX device may possibly become unresponsive while connecting USB		
Condition:	It may occur if the USB is corrupted or not mounted properly due to some hardware glitches		
Workaround:	Power-cycle the chassis and mount the USB again		

Parent Defect ID:	SLXOS-50787	Issue ID:	SLXOS-51320
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2a
Technology Group:	Other	Technology:	Other
Symptom:	security auditlog indicates wrong role for admin user while importing/Deleting oauth2pki certificate		
Condition:	This issue occurs when user tries to import/delete oauth2pki certificate.		

Parent Defect ID:	SLXOS-51126	Issue ID:	SLXOS-51326
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2a
Technology Group:	Monitoring	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	When the tpvm deploy command fails, error is not displayed under the accounting log in TACACs server.		
Condition:	When "tpvm deploy" command is executed while tpvm is already installed, it'll cause failure in "tpvm deploy", this information is not captured as part of account log.		

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-51474	Issue ID:	SLXOS-51474
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00ch
Technology Group:	Layer 2 Switching	Technology:	VLAN - Virtual LAN
Symptom:	Packets may flood on the same port from where it is received.		
Condition:	On reception of packet with ethertype of 0x88e7(PBB)		

Parent Defect ID:	SLXOS-51586	Issue ID:	SLXOS-51586
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00bf
Technology Group:	Other	Technology:	Other
Symptom:	Show command for NTP not giving the proper o/p		
Condition:	When they are running with 18r.2.00bf version.		

Parent Defect ID:	SLXOS-51607	Issue ID:	SLXOS-51607
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Security	Technology:	ACLs - Access Control Lists
Symptom:	Hardware usage displays incorrect value of used ACL Hardware resource.		
Condition:	Apply layer 3 Access control list on the VE interface,		

Parent Defect ID:	SLXOS-49846	Issue ID:	SLXOS-51611
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Traffic Management	Technology:	Rate Limiting and Shaping
Symptom:	STP BPDUs are still received to CPU even though ports are disabled in SLX-9740.		
Condition:	STP BPDU's are received on disabled port.		

Parent Defect ID:	SLXOS-48483	Issue ID:	SLXOS-51615
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Layer 3 Routing/Network Layer	Technology:	Other
Symptom:	On execution of show command "show hw route-info linecard 0" it's showing error: "% Error: LC RESPONSE TIME OUT".		
Condition:	Issue is seen on SLX-9740 platform on execution of command "show hw route-info linecard 0".		

Parent Defect ID:	SLXOS-51494	Issue ID:	SLXOS-51621
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.		

Parent Defect ID:	SLXOS-48741	Issue ID:	SLXOS-51627
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Traffic Management	Technology:	Rate Limiting and Shaping
Symptom:	"show policy-map interface " command for Egress Rate limit feature will display zero value for the conformed and violated counters.		
Condition:	Show commands for Flow based Egress RL is not working fully.		
Workaround:	No Workaround. Hit counters for that Egress RL entry will be shown against "matches" keyword in output.		

Parent Defect ID:	SLXOS-51021	Issue ID:	SLXOS-51644
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Security	Technology:	ACLs - Access Control Lists
Symptom:	BUM, VLAN, and Rate limit feature will not work when used in conjunction with Access control list with count enabled.		
Condition:	Both BUM, VLAN, and Rate limit feature and Access control list with count are applied on same interface.		
Workaround:	Use Access control list without count, when applied along with BUM/VLAN/BD Rate limit		

Parent Defect ID:	SLXOS-49524	Issue ID:	SLXOS-51657
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Traffic Management	Technology:	Rate Limiting and Shaping
Symptom:	"show access-list receive IP" command is not displaying output even though the CoPP ACL RL is applied.		
Condition:	When using "show access-list receive ip" display command.		

Parent Defect ID:	SLXOS-51112	Issue ID:	SLXOS-51661
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Traffic Management	Technology:	Traffic Queueing and Scheduling
Symptom:	Per Egress Port Per VoQ Stats incorrectly increment.		
Condition:	Packets routed on VE interface and DSCP-TC QoS map applied on ingress VE interface.		

Parent Defect ID:	SLXOS-49863	Issue ID:	SLXOS-51668
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Layer 3 Routing/Network Layer	Technology:	BFD - Bidirectional Forwarding Detection
Symptom:	BFD session over L2 Port-channel flaps ..		
Condition:	When the primary member port of a Port-channel is shutdown.		

Parent Defect ID:	SLXOS-50942	Issue ID:	SLXOS-51686
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Traffic Management	Technology:	QoS - Quality of Service
Symptom:	When packets are in the discard queue, statistics do not get updated in the show command.		
Condition:	Show specific issue where stats is not updated - "show tm voq-stat ingress-device ethernet 0/11:2 discards"		
Workaround:	Show TM stats should show discard packets. Also "show interface eth 0/x" shows discard counts for physical interface.		

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.		

Parent Defect ID:	SLXOS-51548	Issue ID:	SLXOS-51902
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	IP Addressing
Symptom:	Device goes into "unregistered_netdevice" error state and does not recover. For example - Following message continuously keep scrolling on the console. [772093.586512] unregister_netdevice: waiting for po64 to become free. Usage count = 1 [772103.842611] unregister_netdevice: waiting for po64 to become free. Usage count = 1		
Condition:	Deleting ICL L3 interface.		

Parent Defect ID:	SLXOS-51906	Issue ID:	SLXOS-51906
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00b
Technology Group:	Other	Technology:	Other
Symptom:	Unexpected reload		
Condition:	When we use the "ip prefix-list name" more than 32 character.		

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-51928	Issue ID:	SLXOS-51931
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Traffic Management	Technology:	Rate Limiting and Shaping
Symptom:	Ingress Rate limit feature is not working on port-channel.		
Condition:	Delete port channel from the configuration. Apply rollback checkpoint which will create port channel and apply rate limiting on port channel.		

Parent Defect ID:	SLXOS-51958	Issue ID:	SLXOS-51958
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Layer 2 Switching	Technology:	LAG - Link Aggregation Group
Symptom:	User creates more than allowed port-channels that the hardware can support, CLI starts throwing error "Exceeded maximum supported LAGs on switch! "		
Condition:	if user configures more than allowed number of port-channels than the hardware can support, initially no error is shown, but after reaching a certain number user will start getting error on the console.		

Parent Defect ID:	SLXOS-52179	Issue ID:	SLXOS-52179
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Security	Technology:	DoS (Denial of Service) protection
Symptom:	Router responds with ICMP port unreachable, for services which are disabled.		
Condition:	If the router receives messages on for Layer 4 TCP ports which are unused, then ICMP port unreachable response are sent.		
Workaround:	Use Receive Access control list to drop these packets and stop from generating these messages.		

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:	<ol style="list-style-type: none"> 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-52347	Issue ID:	SLXOS-52347
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2a
Technology Group:	Management	Technology:	Inband Management
Symptom:	An SLX 9250 port's link status change (up/down) is not propagated to the peer and likewise, the peer port link status is not detected by the port when the optic used is a 1GBaseT media (PN: 33002-100, 10065, 10070H)		
Condition:	An SLX 9250 port has a 1GBaseT optic (PN: 33002-100, 10065, 10070H) inserted with the help of a QSFP-SFPP-ADPT adapter and port is configured for 4x1G breakout mode.		
Workaround:	<p>Use a 10GBaseT optic (PN: 10338) with the QSFP-SFPP-ADPT adapter.</p> <p>For 1G connectivity, configure the port to 4x1G breakout mode. The peer port must support 1000BaseT mode.</p> <p>For 10G connectivity, configure the port to 4x10G breakout mode. The peer port must support 10GBaseT mode.</p>		
Recovery:	To recover, replace the 1GBaseT optic (PN: 33002-100, 10065, 10070H) with the 10GBaseT optic (PN: 10338)		

Parent Defect ID:	SLXOS-52350	Issue ID:	SLXOS-52350
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Monitoring	Technology:	sFlow
Symptom:	In sFlow datagram captured at the collector, Extended Switch data header ingress vlan information is copied to egress vlan information.		

Condition:	In MPLS transit node , when sFlow sample collected on VE over Port Channel and Traffic forwarded out via Layer 3 Port channel.
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Parent Defect ID:	SLXOS-52124	Issue ID:	SLXOS-52354
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00a
Technology Group:	Layer 3 Routing/Network Layer	Technology:	MBGP - Multiprotocol Border Gateway Protocol
Symptom:	In certain conditions SLX device would reload unexpectedly		
Condition:	BGP Static-network is configured locally and BGP also learns the same static-network prefix from one or more Remote peers.		
Workaround:	Apply an inbound route-map or prefix list to deny static-network prefixes from Remote peers.		

Parent Defect ID:	SLXOS-52365	Issue ID:	SLXOS-52365
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2a
Technology Group:	Layer 2 Switching	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	QinQ Packet goes out with inner tag at the Egress device.		
Condition:	QinQ packet over vxlan tunnel.		

Parent Defect ID:	SLXOS-52504	Issue ID:	SLXOS-52504
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Traffic Management	Technology:	QoS - Quality of Service
Symptom:	BFD packets over VxLAN tunnel will go via IP-MGMT queue instead of protocol queue.		
Condition:	BFD sessions may be impacted during CPU congestion condition.		

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-52562	Issue ID:	SLXOS-52562
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2a
Technology Group:	Security	Technology:	User Accounts & Passwords
Symptom:	Unable to login with default users after reload		
Condition:	Rare scenario when we hit the FS corruption.		
Recovery:	<ol style="list-style-type: none"> 1. If the root account is already enabled : <ol style="list-style-type: none"> a. Login with root and execute below <ol style="list-style-type: none"> i. [root@]# cp /etc/shadow.default /etc/shadow ii. [root@]# cp /etc/passwd.default /etc/passwd iii. [root@]# cp /etc/group.default /etc/group 2. If the root account is not enabled, <ol style="list-style-type: none"> a. First recover the root account and execute the below steps <ol style="list-style-type: none"> i. [root@]# cp /etc/shadow.default /etc/shadow ii. [root@]# cp /etc/passwd.default /etc/passwd iii. [root@]# cp /etc/group.default /etc/group 		

Parent Defect ID:	SLXOS-52097	Issue ID:	SLXOS-52591
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2b
Technology Group:	Layer 3 Routing/Network Layer	Technology:	ARP - Address Resolution Protocol
Symptom:	Under certain race condition, ARP updates may be out of sync between the MCT nodes in the cluster. This can happen when the MCT nodes learn a new ARP at the same time. ARP will be re-learned when the traffic lands into the MCT node.		
Condition:	Border leaf Cluster nodes participating in centralized routing.		

Parent Defect ID:	SLXOS-48294	Issue ID:	SLXOS-52649
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00a
Technology Group:	Layer 3 Routing/Network Layer	Technology:	IPv6 Addressing
Symptom:	IPv6 RACL and control plane policy with cir 0 do not drop packets when profile etcam ipv4-v6-route and tcam bgp_flowspec is configured.		
Condition:	when hardware etcam profile ipv4-v6-route and tcam profile bgp_flowspec is configuration, do not drop packets IPv6 RACL and control plane policy with cir 0.		

Parent Defect ID:	SLXOS-26262	Issue ID:	SLXOS-52650
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18s.1.00
Technology Group:	Monitoring	Technology:	Hardware Monitoring
Symptom:	Show media display TX/RX Power values (as well as current).		
Condition:	When we are using the Break out interface.		
Workaround:	No		

Parent Defect ID:	SLXOS-52746	Issue ID:	SLXOS-52746
Severity:	S1 - Critical		
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-52623	Issue ID:	SLXOS-52749
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2a
Technology Group:	Layer 3 Routing/Network Layer	Technology:	IPv6 Addressing
Symptom:	Ipv6 RACL is not working as expected.		
Condition:	When we apply RACL to ipv6 address is not working.		

Parent Defect ID:	SLXOS-52792	Issue ID:	SLXOS-52792
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	IP Multicast	Technology:	IGMP - Internet Group Management Protocol

Symptom:	Multicast traffic loss can be seen for the receivers present on other leaf nodes.
Condition:	1. One of the MCT node learns IGMP groups on Multicast tunnel. 2. The MCT peer is receiving IGMP Queries and Multicast traffic for the learnt groups. So it has to forward the traffic to Multicast tunnel. 2. The spine node, through which the MDT is formed, is reloaded. When it boots up, the MDT convergence will happen through this node again. After this convergence the issue can be seen.
Recovery:	Clearing the IGMP group cache should recover from the issue and a fresh learning of snooping routes should happen.

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-52927	Issue ID:	SLXOS-52927
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Monitoring	Technology:	sFlow
Symptom:	There is no option to clear sflow statistics on a specific port-channel interface		
Condition:	While executing "clear sflow stat interface" CLI, "port-channel" option is not available		
Workaround:	"clear sflow stat" will clear statistics on all interfaces		

Parent Defect ID:	SLXOS-52941	Issue ID:	SLXOS-52941
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2c

Technology Group:	Management	Technology:	Other
Symptom:	EFA does not discover ports during initial discovery if ports link up after the window of 11 sec set by EFA. EFA reports an error to the user		
Condition:	Port link up latency is not deterministic and can depend on a number of factors like type of optic inserted, degree of breakout in the switch and peer port latency		
Workaround:	Adjust the timeout window in EFA		
Recovery:	It is possible to manually refresh EFA's view to discover the undiscovered ports.		

Parent Defect ID:	SLXOS-52962	Issue ID:	SLXOS-52962
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Layer 3 Routing/Network Layer	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Under rare condition, when a large route-map consisting of several instances of match/set statements is added to BGP peer in and out(same route-map configured both for route-map in and route-map out) BGP daemon might terminate and cause the router to reload.		
Condition:	A large route-map consisting of several instances of match/set statement should be configured and added to BGP peer in and peer out		

Parent Defect ID:	SLXOS-53702	Issue ID:	SLXOS-53702
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2c
Technology Group:	Management	Technology:	Software Installation & Upgrade
Symptom:	Unable to login with existing user ids.		
Condition:	When "noactivate" option is used during firmware download command and reloaded the switch		

Parent Defect ID:	SLXOS-52746	Issue ID:	SLXOS-53722
Severity:	S1 - Critical		
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-53703	Issue ID:	SLXOS-53792
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18s.1.03a

Technology Group:	Monitoring	Technology:	Syslog
Symptom:	RASLOG DCM-1101 is not working as expected		
Condition:	When we use short form of "copy run start "		
Workaround:	Use the full CLI: SLX9240# copy running-config startup-config		

Parent Defect ID:	SLXOS-53816	Issue ID:	SLXOS-53816
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2c
Technology Group:	IP Multicast	Technology:	IPv4 Multicast Routing
Symptom:	High CPU observed due to presence of packet Loops in MCT(IP Fabric) topology.		
Condition:	(1).Network is configured with MCT(IP Fabric) clusters. (2).Unknown Multicast to be present on the network.		

Parent Defect ID:	SLXOS-53838	Issue ID:	SLXOS-53838
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2c
Technology Group:	Management	Technology:	Software Installation & Upgrade
Symptom:	Firmware download fails with an error "Cannot start download before the new image is committed. Please run firmwarecommit, or firmwarerestore first."		
Condition:	Current firmware is not committed and a new firmware download is attempted.		

Parent Defect ID:	SLXOS-53840	Issue ID:	SLXOS-53840
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2c
Technology Group:	Management	Technology:	Software Installation & Upgrade
Symptom:	Firmware commit fails with an error "Firmwarecommit failed".		
Condition:	Firmware is already committed and firmware commit is attempted again.		

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-53944	Issue ID:	SLXOS-53944
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Layer 2 Switching	Technology:	LAG - Link Aggregation Group
Symptom:	Traffic is not load balanced across all the ports in a port channel. Most of the traffic is seen egressed from a single port.		
Condition:	<p>when the SIP and DIP are just changed by a single byte, the traffic is observed to be going out on a single port of the port channel (LAG). For example, traffic streams with the <SIP, DIP> combination may take a single port when the traffic is going out on port channel.</p> <p>10.1.1.1 --> 20.1.1.1 10.1.1.2 --> 20.1.1.2 ... 10.1.1.x --> 20.1.1.x (say x is continuously incremented in range 1:250)</p> <p>This kind of traffic streams are usual only in test environments, but not in the real world traffic. In real world, the traffic streams will be between random <SIP, DIP> pairs, which yields different CRC, so they'll get load balanced properly across LAG member ports.</p>		
Workaround:	No known workaround to force the load balance.		

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-53963	Issue ID:	SLXOS-53963
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:	The routes learnt from dynamically learnt EBGP peer is not getting advertised to IBGP peer inconsistently		

Condition:	This issue will occur if IBGP Peer establishment happens before dynamically learnt EBGP peer.
Workaround:	IBGP peer configuration can be done once the dynamically learnt EBGP peer sessions are established
Recovery:	To recover from issue state, "Clear ip bgp neighbor" command can be issued for the best EBGP peer or "Clear bgp soft" command can be issued

Parent Defect ID:	SLXOS-54103	Issue ID:	SLXOS-54103
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Traffic convergence of 150 to 200 seconds is observed without enabling Maintenance Mode		
Condition:	Traffic convergence takes more time upon changing the cluster ICL interface from port-channel to ethernet (no peer-interface Port-channel, peer-interface Ethernet).		

Parent Defect ID:	SLXOS-54133	Issue ID:	SLXOS-54133
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Management	Technology:	CLI - Command Line Interface
Symptom:	"Message generic error" is displayed when configuring ip prefix-lists via load-file-config CLI		
Condition:	Issue is seen when the configuration file contains prefix-list "description" CLI. This CLI is not supported in SLX platforms.		
Workaround:	Workaround is to remove prefix-list "description" CLI from the configuration file used in load-file-config		

Parent Defect ID:	SLXOS-54134	Issue ID:	SLXOS-54134
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	Junk characters may be seen on console.		
Condition:	When large number prefix list is configured using file, then junk characters may be seen on console.		

Parent Defect ID:	SLXOS-54157	Issue ID:	SLXOS-54157
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2

Technology Group:	Layer 2 Switching	Technology:	LAG - Link Aggregation Group
Symptom:	On an SLX 9740 40C, the Insight Port Channel flaps if physical ports link up for the first time after a reboot		
Condition:	Insight port channel is configured and has "no shut" configuration		

Parent Defect ID:	SLXOS-54180	Issue ID:	SLXOS-54180
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2
Technology Group:	Monitoring	Technology:	Telemetry
Symptom:	Redundant or additional SNMP traps are sent when LACP port-channel and member interfaces are flapped.		
Condition:	Redundant SNMP traps are sent when one of the following cases occur - admin up event on PO member , admin down event on PO member , admin down event on PO , admin up event on PO.		

Parent Defect ID:	SLXOS-54226	Issue ID:	SLXOS-54226
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Management	Technology:	CLI - Command Line Interface
Symptom:	"show tpvm ip-address" fails to fetch the ip-address sometimes.		
Condition:	The issue is caused because SLX CLI is not able to contact the qemu agent running on the TPVM. It can happen when qemu agent is not started properly during TPVM startup.		
Workaround:	Stopping and re-starting the TPVM will recover from the issue.		

Parent Defect ID:	SLXOS-54231	Issue ID:	SLXOS-54231
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Other	Technology:	Other
Symptom:	BFD sessions may flap when BFD attack traffic is received at 1000pps rate with TTL value 0.		
Condition:	When BFD attack traffic is received at 1000pps rate with TTL value 0.		
Workaround:	Apply 40KBPS rate-limit to inbound packets with control plane policer. policy-map test class test police cir 40000 ip access-list extended test seq 40 permit icmp any any icmp-type 1 ip-ttl 0		

	control-plane service-policy in test
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Parent Defect ID:	SLXOS-54240	Issue ID:	SLXOS-54240
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	MPLS	Technology:	MPLS VPLS - Virtual Private LAN Services
Symptom:	For SLX-9740, Enabling Routing over BD for VEOVPLS is not supported when the pw-profile on the BD is in Tag mode. This is mainly due to the limitation of the packet processor behavior.		
Condition:	Pw-profile associated with the Bridge-domain must not be configured in tagged mode when routing is enabled on that Bridge-Domain.		

Parent Defect ID:	SLXOS-54241	Issue ID:	SLXOS-54241
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	ARP - Address Resolution Protocol
Symptom:	Traffic loss may be seen as packets are not routed as per IPv4 route.		
Condition:	ARP resolution took long time, which failed to update the route entry.		
Workaround:	Toggle the L3 interface.		

Parent Defect ID:	SLXOS-54249	Issue ID:	SLXOS-54249
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	BFD - BiDirectional Forwarding Detection
Symptom:	BFD Sessions will start flapping		
Condition:	BFD sessions configured over Port-channel which has member links in both towers of 9740-80c device comes online after admin up event.		

Parent Defect ID:	SLXOS-54292	Issue ID:	SLXOS-54292
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 2 Switching	Technology:	VLAN - Virtual LAN
Symptom:	ARP will not be resolved over MCT-CEP interfaces on SLX-9740.		
Condition:	When a MCT-CEP interface is configured as tagged VLAN port with no CCEP (cluster client end points) configured in that specific VLAN.		
Workaround:	Configure the client as CCEP instead of CEP.		

Parent Defect ID:	SLXOS-54294	Issue ID:	SLXOS-54294
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	BFD - BiDirectional Forwarding Detection
Symptom:	BFD Sessions flaps few times		
Condition:	BFD Sessions configured over port-channel which has member links on both towers of 9740-80C device is done admin up.		

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:	<p>In the Ingress ACL based RL, add another deny rule with higher precedence that will match OSPF frames.</p> <p>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</p> <p>seq 10 will make sure that OSPF frames are not rate limited.</p>		

Recovery:	Same as workaround.
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Parent Defect ID:	SLXOS-54349	Issue ID:	SLXOS-54349
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	ARP – Address Resolution Protocol
Symptom:	L3 Traffic gets black holed		
Condition:	If user executes 'clear arp no-refresh' command, it would cause L3 traffic to stop getting forwarded		
Workaround:	Execute 'clear ip route all' for the affected VRF.		

Parent Defect ID:	SLXOS-54358	Issue ID:	SLXOS-54358
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	BFD - BiDirectional Forwarding Detection
Symptom:	Multi-hop BFD session will remain in Admin Down State		
Condition:	Admin down followed by Admin up is applied over outgoing interface of BFD Multi-hop session.		
Workaround:	Remove and add configuration of the BFD session.		

Parent Defect ID:	SLXOS-54367	Issue ID:	SLXOS-54367
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	BFD - BiDirectional Forwarding Detection
Symptom:	BFD sessions will start flapping.		
Condition:	More than one Multi-hop BFD Neighbors are created for a Source IP address		
Workaround:	Remove and add configuration of the BFD session.		

Parent Defect ID:	SLXOS-54380	Issue ID:	SLXOS-54380
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Traffic Management	Technology:	QoS - Quality of Service
Symptom:	Sysdiag daemon is terminated unexpectedly.		

Condition:	When “discard-voq-packet threshold <value>” command is executed multiple times.
Workaround:	Avoid executing the command "discard-voq-packet threshold <value>".

Parent Defect ID:	SLXOS-54419	Issue ID:	SLXOS-54419
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Management	Technology:	High Availability
Symptom:	Upon active slave failing bond0 toggles to new active slave link but sometimes, on last actively used path Management TOR link ARP cache entry for TPVM stays even though now it is stale and invalid.		
Condition:	When no Egress traffic from TPVM for long time and failover happens at Redundant Management Interface under bond0 at SLX OS.		
Workaround:	Create some kind of Egress traffic from TPVM towards Default Gateway, like PING. Which will update in-between Mgmt TOR ARP Caches.		

Parent Defect ID:	SLXOS-54444	Issue ID:	SLXOS-54444
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	BFD - BiDirectional Forwarding Detection
Symptom:	BFD sessions stays in DOWN state		
Condition:	Resilient hashing enable/disable,max-path change		
Workaround:	Remove and add BFD sessions		

Parent Defect ID:	SLXOS-54465	Issue ID:	SLXOS-54465
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 2 Switching	Technology:	LAG - Link Aggregation Group
Symptom:	CCEP Port-channel flaps		
Condition:	CCEP Port-channel flaps with reason 'Peer out-of-sync' when lacp timeout value of Port-channel member is configured 'short' on one side and 'long' on other side		
Workaround:	Configure same lacp timeout value i.e 'short' or 'long' on both side of port-channel		
Recovery	<ol style="list-style-type: none"> 1. Change the lacp timeout value of Port-channel member port to 'short' on both sides or 'long' on both sides. 2. Execute shutdown and 'no shutdown' on the Port-channel member port which is flapping. 		

Parent Defect ID:	SLXOS-54726	Issue ID:	SLXOS-54726
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	BFD - BiDirectional Forwarding Detection
Symptom:	BFD software sessions over CCEP interface will flap few times.		
Condition:	CCEP Port-channel interface is shut in a scaled environment. Issue seen only on SLX 9150 MCT. This issue is not seen in SLX 9250 MCT.		

Parent Defect ID:	SLXOS-55152	Issue ID:	SLXOS-55152
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Monitoring	Technology:	Port Mirroring
Symptom:	On SLX-9150 and SLX-9250, ACL mirroring stops after reload.		
Condition:	Port channel is configured as destination port in ACL mirror configuration on SLX-9150/9250		
Workaround:	There are two work around. 1) After reload, unbind and bind ACL back on interface. 2) Add L2 configuration to destination port channel.		

Parent Defect ID:	SLXOS-55155	Issue ID:	SLXOS-55155
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-55167	Issue ID:	SLXOS-55167
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Management	Technology:	CLI - Command Line Interface
Symptom:	Display issue where 25 G optics is shown as 10G optics for the 4x25G DAC cable.		
Condition:	Display issue where 25 G optics is shown as 10G optics for the 4x25G DAC cable.		

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-55211	Issue ID:	SLXOS-55211
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-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:	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-55277	Issue ID:	SLXOS-55277
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Management	Technology:	Other
Symptom:	After reboot, Redundant Management ethernet port link is not coming up.		
Condition:	With some 1000BaseT peers, optical module part #10388 (Extreme Networks 10GBaseT module) does not link up after a reboot		
Recovery:	Reseating of the module brings up the link		

Parent Defect ID:	SLXOS-55282	Issue ID:	SLXOS-55282
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a

Technology Group:	Management	Technology:	CLI - Command Line Interface
Symptom:	When the copper module inserted is 1000BaseT or 10GbaseT, cable type is shown as Cat 5, even if it is a Cat 6 or Cat 6a Connector type. All copper cables are displayed as being Cat 5		
Condition:	Display media type of the inserted Copper cable - using CLI command - "show media interface ethernet 0/x:y".		
Workaround:	This is a just display issue and the switch cannot detect the copper cable type,		
Recovery:	No recovery required		

Parent Defect ID:	SLXOS-55297	Issue ID:	SLXOS-55297
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Monitoring	Technology:	Telemetry
Symptom:	On SLX 9740, inoctets/outoctets counter output of interfaces or snmp query for these same counters of ports spike at some point and the spiked values continue. These spikes are not real reflection of data but just a counter read issue.		
Condition:	There is no specific condition for this inaccuracy in the counter		

Parent Defect ID:	SLXOS-55329	Issue ID:	SLXOS-55329
Severity:	S3 - Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Other	Technology:	Other
Symptom:	On SLX9740-80C, following error message is seen on console " nsm_decode_link Link Message has wrong length 65532"		
Condition:	On breakout being performed on a port		

Parent Defect ID:	SLXOS-55369	Issue ID:	SLXOS-55369
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Other	Technology:	Other
Symptom:	In MCT Configuration, Layer2 ARP broadcast packets are not getting forwarded on SLXs-9740 when one of MCT switch reloads.		
Condition:	ARP suppression feature is enabled on the VLAN.		
Workaround:	Disable ARP suppression feature on the VLAN.		

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-55393	Issue ID:	SLXOS-55393
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis Trunking
Symptom:	The MCT node does not send BUM traffic on ICL Port-channel to other peer node.		
Condition:	1. The deployment should be MCT on SLX 9740. 2. Issue is seen with configuration of port-channel scale more than 64 per forwarding engine when one of the MCT nodes is reloaded.		
Workaround:	Reduce port-channel scale to 64 per forwarding engine		

Parent Defect ID:	SLXOS-55427	Issue ID:	SLXOS-55427
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
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-55480	Issue ID:	SLXOS-55480
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:	One of the CCEP link goes down and comes backup on one of the leaf nodes of the MCT Cluster.		

Parent Defect ID:	SLXOS-55482	Issue ID:	SLXOS-55482
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Management	Technology:	Other
Symptom:	Link will not come up between SLX 9150 native 25G port and SLX 9250 Breakout 25G port, if we have "fec mode auto-neg" configured on both sides.		
Condition:	Link will not come up between SLX 9150 native 25G port and SLX 9250 Breakout 25G port, if we have "fec mode auto-neg" configured on both sides.		
Workaround:	Link will come up if user configures other supported FEC modes on both sides.		

Parent Defect ID:	SLXOS-55483	Issue ID:	SLXOS-55483
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Management	Technology:	CLI - Command Line Interface
Symptom:	25G Breakout port on an Extreme 100G SR Optic displays the default FEC mode as Disabled.		
Condition:	25G Breakout port on an Extreme 100G SR Optic displays the default FEC mode as Disabled. Internally the FEC is enabled as FC-FEC.		

Parent Defect ID:	SLXOS-55485	Issue ID:	SLXOS-55485
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-55491	Issue ID:	SLXOS-55491
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, BFD session flap observed on VE that has a port-channel configuration		
Condition:	A non-primary member port of the Port channel is flapped		

Parent Defect ID:	SLXOS-55493	Issue ID:	SLXOS-55493
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Layer 3 Routing/Network Layer	Technology:	Other
Symptom:	On SLX 9540 platform, End to End traffic drop seen in asymmetric routing over tunnel applications like VxLAN, VPLS.		
Condition:	Issue seen in asymmetric routing over tunnel cases where the L3 traffic routed at one VxLAN leaf node and L2 switching on the remote Leaf.		

Parent Defect ID:	SLXOS-55495	Issue ID:	SLXOS-55495
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis Trunking
Symptom:	The packets go out as Untagged from a tagged trunk port that is configured Cluster Edge Port (CEP) physical port.		
Condition:	When the port 0/1 (Or Breakout ports 0/1:1-4) are used as CEP ports, and configured as "switchport trunk", the packets egressing out of the port are Untagged. Problem is not seen with the other ports.		
Workaround:	1. Configuring Port channel on 0/1 or (0/1:1-4) physical port should resolve the condition. or 2. Configuring Cluster Client Edge Port (CCEP) also resolves the condition.		
Recovery:	No known recovery methods.		

Parent Defect ID:	SLXOS-55497	Issue ID:	SLXOS-55497
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Management	Technology:	CLI - Command Line Interface
Symptom:	On SLX 9250, the 25G breakout port will show FEC mode as Auto-Neg.		
Condition:	On Reload the FEC mode on 25G breakout port shows as Auto-Neg only if the link is in down state.		

Workaround:	Bring up the Link and the port will display the appropriate FEC mode
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Parent Defect ID:	SLXOS-55523	Issue ID:	SLXOS-55523
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Management	Technology:	SNMP - Simple Network Management Protocol
Symptom:	Multiple messages of nslookup failure and leads to system reload		
Condition:	Configuring unreachable DNS servers as snmp host and doing large file replay		
Workaround:	Have a Reachable FQDN configured as snmp host or IP address configured as SNMP host		

Parent Defect ID:	SLXOS-55528	Issue ID:	SLXOS-55528
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:	Reload one of the leaf nodes of the MCT Cluster nodes.		

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.		

Parent Defect ID:	SLXOS-55539	Issue ID:	SLXOS-55539
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a

Technology Group:	Layer 2 Switching	Technology:	Other
Symptom:	User configures thru CLI "breakout mode" for a connector under hardware submode.		
Condition:	For the completion of CLI "breakout mode", 4x1g option is not displayed in the help description		
Workaround:	User configuration is accepted by the switch, if the user enters 4x1g on the CLI command on valid interfaces		

Parent Defect ID:	SLXOS-55545	Issue ID:	SLXOS-55545
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Management	Technology:	Configuration Fundamentals
Symptom:	On Reboot of SLX 9250, the link between the 25G breakout port and Spirent 25G goes down.		
Condition:	The issue is seen observed when the " fec mode auto-neg" is configured on both the sides.		
Workaround:	Issue is not seen if explicit supported FEC mode is configured on both sides.		

Parent Defect ID:	SLXOS-55553	Issue ID:	SLXOS-55553
Severity:	S3 – Medium		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00ca
Technology Group:	MPLS	Technology:	LDP - Label Distribution Protocol
Symptom:	On SLX 9640 and SLX 9540, LDP Protocol packets will trap to CPU in the Transient router without MY-IP check.		
Condition:	LDP Protocol packets will trap to CPU in Transient router even though it is not destined to the box's IP address.		

Parent Defect ID:	SLXOS-55560	Issue ID:	SLXOS-55560
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:	ICL Link in the leaf MCT cluster node is flapped.		

Defects Closed with Code Changes

Parent Defect ID:	SLXOS-48120	Issue ID:	SLXOS-48120
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	Other
Symptom:	SLX9150/SLX9250 goes for unexpected reload after receiving huge routes beyond/w capabilities IPv4 or IPv6 unicast routes from routing protocol (like OSPF/BGP) neighbors with multicast routing enabled		
Condition:	Multicast Routing (PIM) enabled on the switch and system receives more than 128K IPv4 unicast routes or 32K IPv6 unicast routes or collectively (Multi-D) more than 64K IPv4 unicast routes and 16K IPv6 unicast routes.		
Workaround:	IPv4 and IPv6 route scale must be maintained as per the scale document route limits		

Parent Defect ID:	SLXOS-51403	Issue ID:	SLXOS-51848
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Traffic Management	Technology:	QoS - Quality of Service
Symptom:	With ARP traffic rate larger than 2Kpps, LACP and BFD protocols may flap.		
Condition:	LACP/BFD protocol starts flapping when ARP traffic is sent at 2K pps.		
Workaround:	Apply ACL RL to limit ARP traffic.		

Parent Defect ID:	SLXOS-52037	Issue ID:	SLXOS-52037
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Traffic Management	Technology:	Rate Limiting and Shaping
Symptom:	Raslog is generated reporting a CIR value configured, that is less than minimum supported.		
Condition:	"limit-percent" option is used to configure BUM Rate limiting feature on a Port channel, and no member ports are present in Port channel While rebooting and BUM RL with "limit-percent" option applied on Port channel		
Workaround:	None		
Recovery:	No impact on the functionality. When member ports are added CIR will be calculated correctly as per the limit-percent option configured		

	and applied. On reload/roll back, even if port channel has member ports, this message can appear because the Rate limit configuration is replayed earlier than member port addition. This raslog can be ignored. When member port addition happens, the CIR will be set correctly.
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Parent Defect ID:	SLXOS-52345	Issue ID:	SLXOS-52345
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Layer 3 Routing/Network Layer	Technology:	ICMP - Internet Control Message Protocol
Symptom:	Even if "no icmp unreachable" is configured on an SLX interface, ICMP unreachable messages are sent for unopened ports.		
Condition:	If there are certain unopened TCP/UDP ports.service on an SLX device, when an entity does a port scan, SLX device returns with ICMP unreachable message. It is not possible to avoid it even with configuring "no icmp unreachable" option for that interface on the SLX device.		

Parent Defect ID:	SLXOS-52512	Issue ID:	SLXOS-52512
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Traffic Management	Technology:	Rate Limiting and Shaping
Symptom:	Traffic flood to TCP port 179 may cause protocol flaps.		
Condition:	Traffic flood to TCP port 179 may cause protocol flaps if traffic rate >10Mbps.		
Workaround:	Apply ACL RM with TCP port 179.		

Parent Defect ID:	SLXOS-52755	Issue ID:	SLXOS-52755
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Monitoring	Technology:	sFlow
Symptom:	S-Flow sample packet is having wrong system time up		
Condition:	Apply S-Flow on interface		

Parent Defect ID:	SLXOS-52765	Issue ID:	SLXOS-52765
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Monitoring	Technology:	sFlow

Symptom:	S-Flow sample packet having wrong interface speed
Condition:	S-Flow applied on port channel interface

Parent Defect ID:	SLXOS-54281	Issue ID:	SLXOS-54281
Severity:	S2 - High		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Layer 2 Switching	Technology:	VLAN - Virtual LAN
Symptom:	On removal of switchport VLANs for an interface it returns error if VLAN is not configured as switchport VLAN for that interface.		
Condition:	On execution of CLI or Netconf request to remove switchport VLAN for an interface.		

Defects Closed without Code Changes

Parent Defect ID:	SLXOS-25297	Issue ID:	SLXOS-51652
Reason Code:	Not Reproducible	Severity:	S2 - High
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00
Technology Group:	Security	Technology:	DoS (Denial of Service) protection
Symptom:	When Bridge Domain based Rate Limiting and ACL are applied on the same port, both Bridge Domain RL counter and ACL counter increment. Only ACL counter should increment.		
Condition:	When Bridge Domain RL and ACL are applied to the same port.		

Parent Defect ID:	SLXOS-51776	Issue ID:	SLXOS-51820
Reason Code:	Design Limitation	Severity:	S2 - High
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Security	Technology:	ACLs - Access Control Lists
Symptom:	512 TCAM entries are supported for egress Ipv4 ACL. ACL will not take effect if ACL's are applied after 512 cam entries are utilized.		
Condition:	If more than 512 cam entries for egress IPv4 ACL's are used.		

Parent Defect ID:	SLXOS-51884	Issue ID:	SLXOS-51884
Reason Code:	Not Reproducible	Severity:	S2 - High
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Monitoring	Technology:	Hardware Monitoring
Symptom:	Some ports flap continuously		
Condition:	Link Fault Signalling (LFS) is enabled by default on ports. Some ports can flap continuously because of faulty optical media. This is because LFS detects a fault, clears it and detects it again causing a flap.		
Workaround:	Disabling LFS can alleviate the flap issue. However, this is an indication of faulty media and can lead to traffic loss due to errors. It is recommended, where possible, to replace the faulty media in such cases.		
Recovery:	Disable LFS		

Parent Defect ID:	SLXOS-52134	Issue ID:	SLXOS-52134
Reason Code:	Not Reproducible	Severity:	S1 - Critical
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Traffic Management	Technology:	Rate Limiting and Shaping
Symptom:	Incorrect egress rate-limit maybe seen after applying eRL config on PO if rollback checkpoint is done.		

Condition:	Applying eRL config on PO if rollback checkpoint is done.
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Parent Defect ID:	SLXOS-51949	Issue ID:	SLXOS-52228
Reason Code:	Will Not Fix	Severity:	S2 - High
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2b
Technology Group:	Management	Technology:	Other
Symptom:	User might observe TPVM installation failure during the TPVM deploy command.		
Condition:	The issue is observed when TPVM is already installed and is present in an intermediate inconsistent state. As the current status of the installation cannot be retrieved, observe an error.		

Parent Defect ID:	SLXOS-50875	Issue ID:	SLXOS-52742
Reason Code:	Will Not Fix	Severity:	S3 - Medium
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2a
Technology Group:	Management	Technology:	Other
Symptom:	tacacs accounting log shows "Message Generic Error" when user deletes the imported oauth2 certificate.		
Condition:	User will observe this when oauth2 certificate is deleted using "no crypto import oauth2pkicert" cmd		
Workaround:	NA		

Parent Defect ID:	SLXOS-52776	Issue ID:	SLXOS-52776
Reason Code:	Working as Designed	Severity:	S2 - High
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Layer 2 Switching	Technology:	LAG - Link Aggregation Group
Symptom:	Layer 3 traffic drop might be observed on a VE interface over Port-Channel		
Condition:	ARP is not resolved or MAC is not learnt over the VE, when multiple flaps are performed on Port-Channel.		
Recovery:	Perform shutdown and no shutdown on the same Port-Channel.		