

Extreme SLX-OS 20.3.4a

Release Notes

Supporting ExtremeRouting and ExtremeSwitching SLX 9740, SLX 9640, SLX 9540, SLX 9150, SLX 9250, Extreme 8720, and Extreme 8520

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# Document History

Version	Summary of changes	Publication date
1.0	Initial version for 20.3.4a	February 2022

## Preface

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- A description of any actions already taken to resolve the problem
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- 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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- Improvements that would help you find relevant information in the document
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Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

# Release Overview

Release SLX-OS 20.3.4a is mainly focused on:

- Critical defect fixes
- Mirroring support for Port channel Interface on SLX 9150, SLX 9250, Extreme 8520 and Extreme 8720 platforms
- Smart drift detection method on SLX-OS configuration

#### Release SLX-OS 20.3.4 is mainly focused on:

- SLX-OS Hardening features
- Augmented ACL and rate-limiting capabilities on SLX 9740 platform
  - IPv4 Ingress ACL based rate-limiting on VE.
  - o IPv4 Egress ACL based rate-limiting.
  - o IPv6 Egress ACL filtering (Both Source and Destination IPv6 with full address length)
- Forward Error Correction (FEC) changes
- Manual speed configuration for 1G ports on SLX 9150-XT & Extreme 8520-XT.

#### Release SLX-OS 20.3.3 is mainly focused on:

- Bring up the new hardware platforms Extreme 8520 and Extreme 8720
- Deliver IP Fabric and data center use cases on newer HW platforms Extreme 8520 and Extreme 8720
- Provide Trusted Delivery Solution on Service Provider Product portfolio
- Add Security features towards hardening SLX-OS

#### Release SLX-OS 20.3.2c provides the following features:

No new feature is added in this release.

#### Release SLX-OS 20.3.2b provides the following features:

- Automatic re-installation of TPVM image after device reload.
- MD5 Password support extended to BGP Dynamic Range.
- Increased the number of supported L3 MTU Profiles to seven (7) on SLX 9740.

#### Release SLX-OS 20.3.2a provides the following features:

- Single folder/directory support for supportsave collection
- TPVM NETConf RPC to perform TPVM image sanity
- TPVM Upgrade enhancements TPVM migration on legacy to config mode
- BGP multihoming with EVPN VxLAN additional capabilities

#### Release SLX-OS 20.3.2 provides the following features:

- BGP Multi-homing with EVPN VxLAN
- BGP neighbor teardown-restart-interval

- Allowing 64-character length VRF name
- TPVM Enhancements for EFA use case.
  - o TPVM configuration persistence.
  - SLX OS Image upgrade
  - O SLX OS configuration snapshot for upgrade and rollback.
- Connection limit option for IP ACL (Management port only)
- BFD timer config at global for both single hop and multi-hop sessions
- Secure (TLS 1.2) support for gNMI streaming
- RSPAN and ERSPAN support for VLAN mirroring
- Optimize Supportsave creation in low memory conditions
- Strong encryption support
- Confidentiality and integrity of O&M traffic

#### Release SLX-OS 20.3.1 provides the following features:

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

# **Behavior Changes**

The following are the behavioral changes for SLX-OS 20.3.4a

No behavioral changes were introduced in this release.

The following are the behavioral changes for SLX-OS 20.3.4

- Availability of HTTP and SSH services for a newly added or operationally up interface in mgmt-vrf, requires the user to restart services.
- Similarly, after removing any interface from the mgmt.-vrf, the user must restart HTTP and SSH services.

The following are the behavioral changes for SLX-OS 20.3.3

No behavioral changes were introduced in this release.

The following are the behavioral changes for SLX-OS 20.3.2c

No behavioral changes were introduced in this release.

The following are the behavioral changes for SLX-OS 20.3.2b

• The copy default-config startup-config command now restores the TPVM (when installed).

TPVM must be explicitly removed using the below command:

copy default-config startup-config remove-tpvm

The following are behavioral changes for SLX-OS 20.3.2a.

• Supportsave files will be copied under a **sub directory** under the remote path provided in the support save command. *Please refer the SLX OS 20.3.2a Manageability Guide for more information.* 

The following are behavioral changes for SLX-OS 20.3.2.

- TPVM CLI commands are now available under config mode.
- LIF scale reduced to 13150 with EVPN MH feature addition.
- Supportsave threshold for low memory condition is changed from 200 MB to 500 MB.

## Software Features

The following key software features are added in the SLX-OS 20.3.4a release

Feature Name	Supported SLX Platforms	Description
Mirroring support on	SLX 9150	Allows user to configure a port channel interface
Port channel (PO)	SLX 9250	as source mirror port. Currently, user is required
interface	Extreme 8520	to configure this on individual member ports of a
	Extreme 8720	port channel

Smart Drift Detection	All	Enables Manageability Applications such as
method for SLX-OS		Extreme Fabric Automation (EFA) to quickly detect
configuration		differences in the application stored configuration
		and SLX-OS configuration and perform
		reconciliation only when required

The following key software features are added in the SLX-OS 20.3.4 release:

Feature Name	Supported SLX Platforms	Description
Transmission of log event records to central log collection server	All	Supports for system logging using rsyslog over Reliable Event Logging Protocol (RELP).
Ability to control service bindings for listening services	All	Provides flexibility to start/stop HTTP and SSH services on VRFs by hardening the code to bind to specific VRFs
Ability to disable processing of packets utilizing IP Options	All	Enables the ability to disable processing of IPv4 and IPv6 packets using IP Options
IPv4 Egress Rate Limiting	SLX 9740	Adds the IPv4 ingress rate limiting support on VE interfaces, and IPv4 egress rate limiting support on all interface types (physical, PO and VE)
IPv6 ACL enhancement	SLX 9740	New support for egress IPv6 ACL. IPv6 source and destination match is now supported on egress IPv6 ACL in a new ipv6-optimized profile.
BGP Dynamic Peering Scale Enhancement	All	Max. number of BGP Dynamic Peering sessions is increased to 1024.
IPv4 SNMP trap for BGP connection states as supported with IPv6	All	Enables SNMP trap support for IPv4 BGP connection state transition.
1G port on SLX 9150	SLX 9150-T and	Enables manual configuring of 1G port speed on
and Extreme 8520	Extreme 8520-XT	SLX 9150-XT and Extreme 8520-XT.
FEC mode enhancement	SLX 9150, SLX 9250, Extreme 8720, Extreme 8520 and SLX 9740	"no FEC" support is added.

The following key software features are added in the SLX-OS 20.3.3 release:

Feature Name	Supported SLX Platforms	Description
Measured Boot with Remote Attestation	Extreme 8520 Extreme 8720	Measured boot allows malware detection in the boot components of an SLX switch
		Remote Attestation allows SLX switches to authenticate hardware and software components to a remote server (attestation server)
GRUB bootloader password protection	All	Add password protection to access the GRUB boot loader.
Support network element authentication (mutual authentication)	All	Introduces mutual authentication where client certificate is validated by a TLS party acting as a server
Support preservation of SSH Host Keys during all upgrades (mutual authentication)	All	Ensures SSH host keys are preserved after all upgrade procedures, esp. with fullinstall and netinstall
Support inactivity for user account	All	Informs user about account inactivity and lock user accounts on SLX OS for exceeded inactivity periods
Enforcement of least privilege	All	Enforces least access privilege for log files, bin files and text file permissions on SLX OS to minimize potential impact in the wake of any malicious attacks
Certificate management – expiry alert	All	Allows users to receive an early notification when Cryptographic certificates on SLX OS are nearing expiry. User can configure severity levels and period (number of days for certificate expiry)
Platform and Software Bring up on Extreme 8520 and Extreme 8720	Extreme 8520 Extreme 8720	Bring up new hardware platforms (Extreme 8520 and 8720) and support IP Fabric and data center feature set
L3 MTU profile support	SLX 9250 Extreme 8720	Increases number of supported L3 MTU profiles
Per neighbor support for BGP Graceful Restart	All	Allowing to configure BGP Graceful Restart feature on a per-neighbor basis
Per-Interface Neighbor Discovery Cache Limit	All	Mitigates certain DoS attacks in IPv6 deployments that involves advertising large numbers of hosts in the same subnet and filling the IPv6 ND Cache table
BGP MIB support for bgp4V2PrefixGaugesTable	All	SNMP MIB support for BGP prefix gauge table

The following key software features are added in the SLX-OS 20.3.2c release: No new feature is added in this release.

# The following key software features are added in the SLX-OS 20.3.2b release:

Feature Name	Supported SLX Platforms	Description
MTU Profiles support	SLX 9740	Increased the number of supported L3 MTU Profiles to 7.
MD5 Password support extended to BGP Dynamic Range	All Platforms	MD5 password is supported on dynamic BGP neighbors with range options.
Automatic re- installation of TPVM image after resetting the device	All Platforms	By default, TPVM configuration will be retained after issuing "coping default to startup-config". User needs to explicitly configure 'remove-tpvm' parameter of this command to prevent TPVM being automatically reinstalled.

# The following key software features are added in the SLX-OS 20.3.2a release:

Feature Name	Supported SLX	Description
	Platforms	
Single folder/directory	All Platforms	Provide support to create a sub directory under
support for supportsave collection		the remote path provided in the support save command
TPVM - NETConf RPC	All Platforms	Augments current "tpvm upgrade" command to
to perform TPVM		sanitize image before downloading for parameters
image sanity		such as length, version, host access,
		user/credential authentication
TPVM Upgrade	All Platforms	Migrate the TPVM configurations done using
enhancement – TPVM		legacy exec commands (in releases before SLX OS
migration support		20.3.2), to running-config, during the firmware
		download to SLX OS 20.3.2a.
BGP multihoming with EVPN VxLAN	SLX 9150, SLX 9250	Additional EVPN Multihoming support for
EVITO VALUE		1) Core Isolation (Disable case)
		2) IRB in multi-homed topology - L3 VNI
		3) Maintenance Mode

The following key software features are added in the SLX-OS 20.3.2 release.

Feature Name	Supported SLX Platforms	Description
BGP Multi-homing with EVPN VxLAN	SLX 9150 SLX 9250 Extreme 8720	Supporting BGP EVPN VxLAN based multi-homing clients.
BGP neighbor teardown-restart- interval	All Platforms	To support automatic restart of BGP neighbor restarts after a teardown due to prefix-limit.
Allowing 64-character length VRF name	All Platforms	VRF name length is increased to 64 characters.
TPVM Image Upgrade via EFA and Configuration Persistence	All Platforms	TPVM Image can be upgrade via EFA and configuration preserved.
Connection limit option for IP ACL (Management port only)	All Platforms	Number of connection per-IP can be limited via ConnTrack module in IP tables.
BFD timer config at global for both single hop and multi-hop sessions	All Platforms	BFD timer value can be configured at global level for all session.
Secure (TLS 1.2) support for gNMI streaming	All Platforms	Interface counters can be streamed up via gNMI to gNMI clients.
RSPAN and ERSPAN support for VLAN mirroring	SLX 9150 SLX 9250 SLX 9740 Extreme 8720	Support port and flow based span
Strong encryption support	All Platforms	Capability to control the TLS version used by SLX-OS services
Confidentiality and integrity of O&M traffic	All Platforms	4096-bit SSH host key support.
Optimize Supportsave creation in low memory conditions	All Platforms	Depending on low system memory conditions hitting threshold (500 MB), support save creation will automatically move to basic support save.

Feature Name	Supported SLX Platforms	Description
TPVM Configuration Persistence	All Platforms	New config mode added to deploy tpvm and related TPVM configurations. When these TPVM configuration are persisted at SLX-OS config database too, they can be displayed by show running-config tpvm and other show commands
		Earlier, TPVM could be installed using the tpvm install or tpvm deploy or other similar commands. The configurations were applied using the tpvm config set of commands. These applied configurations were retained by the TPVM Guest OS. These configurations were available for use only when the switch rebooted.
		But across upgrade and SLX switch RMA, manual re-applying was needed on new installation.
		In the new mode, along with the new TPVM Upgrade CLIs, upgrade or RMA like operation becomes seamless and the device admin need not re-apply previously configured TPVM settings.
		For more information on configuring TPVM Configuration Persistence, refer the 'Management Configuration Guide' for SLX-OS 20.3.2.
		Note: Both modes of installation are allowed for backward compatibility, However, only one TPVM can be installed. It is recommended to use one of these two modes and not mix.
TPVM Upgrade	All Platforms	New CLI to download new TPVM image. If SLX had any previously deployed TPVM as per new mode introduced in this release SLX-OS 20.3.2, then that will be stop/uninstalled and new image shall be deployed and previously set TPVM configurations will be applied too.
		For more information on configuring TPVM Configuration Persistence, refer the 'Management Configuration Guide' for SLX-OS 20.3.2.

Feature Name	Supported SLX Platforms	Description
TPVM snapshot	All Platforms	Installed TPVM snapshot (backup) can be taken manually or as part of tpvm upgrade CLI. If admin finds upgrade failed or for any reason, TPVM instance can be reverted to backup instance. Note: in-between configs should not be updated and only one snapshot instance is supported.
		For more information on configuring TPVM Configuration Persistence, refer the 'Management Configuration Guide' for SLX-OS 20.3.2.

# **CLI Commands**

The following commands were added, modified, or deprecated for the 20.3.4a program

#### New commands for 20.3.4a

- config-drift-track
- show config-drift-track

#### Modified commands for 20.3.4a

No commands were modified in this release.

## Deprecated commands for 20.3.4a

No commands were deprecated in this release.

The following commands were added, modified, or deprecated for the 20.3.4 program

## New commands for 20.3.4

- logging utility
- ipv6 option disable
- undeploy-force (tpvm)

#### Modified commands for 20.3.4

- speed (ethernet)
- service-policy (interface)
- fec mode (interface)
- ip option disable

## Deprecated commands for 20.3.4

No commands were deprecated in this release.

The following commands were added, modified, or deprecated for the 20.3.3 program

#### New commands for 20.3.3

- agent-enable
- agent-uuid
- agent-port
- core-isolation-track
- crypto cert
- enable (GRUB)
- grub
- measured-boot enable
- neighbor graceful-restart
- registrar-server
- registrar-port
- show core-isolation track
- show remote-attestation
- username (GRUB)

#### Modified commands for 20.3.3

- crypto ca import-pkcs
- crypto import
- ipv6 nd cache interface-limit
- show policy-map
- tpvm config hostname
- username
- hostname (tpvm mode)

### Deprecated commands for 20.3.3

No commands were deprecated in this release.

The following commands were added, modified, or deprecated for the 20.3.2c program

#### New commands for 20.3.2c

No commands are added in this release.

#### Modified commands for 20.3.2c

No commands are modified in this release.

# Deprecated commands for 20.3.2c

No commands are deprecated in this release.

The following commands were added, modified, or deprecated for the 20.3.2b program

#### New commands for 20.3.2b

No commands are added in this release

#### Modified commands for 20.3.2b

copy default-config startup-config

## Deprecated commands for 20.3.2b

No commands are deprecated in this release.

The following commands were added, modified, or deprecated for the 20.3.2a program

#### New commands for 20.3.2a

- tpvm fileinfo
- tpvm download
- core-isolation-disable
- lacp system-id

#### Modified commands for 20.3.2a

- neighbor password
- ip ospf md5-authentication
- area authentication
- ip vrrp-extended auth-type

- auth-key
- isis auth-key
- tpvm upgrade

## Deprecated commands for 20.3.2a

neighbor accept-lldp-neighbors

The following commands were added, modified, or deprecated for the 20.3.2 program

#### New commands for 20.3.2

- auto-boot (tpvm mode)
- Ethernet-segment
- Esi
- gnmi server
- interface management (tpvm mode)
- ip route static bfd
- management-security
- neighbor <IPv4/v6> maximum-prefix <maxprefixcount> teardown restart-interval <interval>
- password (tpvm mode)
- ssl-profile
- tls min-version
- tpvm (mode)
- hostname (tpvm mode)
- timezone (tpvm mode)
- dns (tpvm mode)
- ntp (tpvm mode)
- Idap (tpvm mode)
- Idap ca-cert (tpvm mode)
- trusted-peer (tpvm mode)
- tpvm deploy (tpvm mode)
- tpvm snapshot
- tpvm upgrade (tpvm mode)

## Modified commands for 20.3.2

- acl-mirror
- crypto ca import-pkcs
- crypto import
- ip access-list extended
- ipv6 access-list extended
- ip route static bfd
- ssh server key
- show ip/ipv6 bgp neighbor
- show tpvm status

It adds one additional line of information to indicate "additional status".

E.g.

SLX# show tpvm status
SSH and Sudo passwordless :Enabled
AutoStart :Enabled
Tpvm status :Running
Tpvm version :4.2.5
Tpvm additional status :normal

It is mainly set to **normal**, implying rest of above fields are normal. But if upgrade or deploy, is issued, then it reflects transiting state of that operation. For success completion, it again gets value "normal" else reflect error state.

- switchport access
- switchport trunk allowed

## Deprecated commands for 20.3.2

qos cos cos\_value

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

#### New commands for 20.3.1

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

# Modified commands for 20.3.1

- bpdu-drop-enable
- clear ip bgp rpki server
- clear counters
- clear counters access-list
- ip dns
- ip access-list
- password-attributes
- profile counters
- monitor session

- show lldp neighbors
- show system maintenance
- show ip bgp rpki details
- show ip bgp rpki server summary
- show ip bgp rpki table
- show ip bgp routes
- show hardware profile
- show interface stats detail
- show access-list
- show statistics access-list
- system maintenance
- system maintenance turn-off

## Deprecated commands for 20.3.1

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

# Hardware Support

# Supported devices and software licenses

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

Supported devices	Description
	SLX 9540-24S Switch DC with Front to Back airflow (Port-side to non-port
BR-SLX-9540-24S-DC-F	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
8720-32C	Extreme 8720-32C Switch with two empty power supply slots, six empty fan slots and a 4-post rack mount kit, Supports 32x100/40GE
8720-32C-AC-F	Extreme 8720-32C Switch with front to back airflow, Supports 32x100/40G with two AC power supplies, six fans and a 4-post rack mount kit
8720-32C-AC-R	Extreme 8720-32C Switch with back to front airflow, Supports 32x100/40G with dual AC power supplies, six fans and a 4-post rack mount kit
8720-32C-DC-F	Extreme 8720-32C Switch with front to back airflow, Supports 32x100/40G with dual DC power supplies, six fans and a 4-post rack mount kit
8720-32C-DC-R	Extreme 8720-32C Switch with back to front airflow, Supports 32x100/40G with dual DC power supplies, six fans and a 4-post rack mount kit
8000-PRMR-LIC-P	Extreme 8000 Premier Feature License (includes Integrated Application Hosting)
8520-48Y-8C	Extreme 8520-48Y Switch with two empty power supply slots, six empty fan slots; Ships with one 4-post rack mount kit; Supports 48x25/10/1G and 8x100/40G ports
8520-48Y-8C-AC-F	Extreme 8520-48Y Switch with front-back airflow; Ships with two AC power supplies, six fans, one 4-post rack mount kit; Supports 48x25/10/1G and 8x100/40G ports

Supported devices	Description
8520-48Y-8C-AC-R	Extreme 8520-48Y Switch with back-front airflow; Ships with two AC power supplies, six fans, one 4-post rack mount kit; Supports 48x25/10/1G and 8x100/40G ports
8520-48Y-8C-DC-F	Extreme 8520-48Y Switch with front-back airflow; Ships with two DC power supplies, six fans, one 4-post rack mount kit; Supports 48x25/10/1G and 8x100/40G ports
8520-48Y-8C-DC-R	Extreme 8520-48Y Switch with back-front airflow; Ships with two DC power supplies, six fans, one 4-post rack mount kit; Supports 48x25/10/1G and 8x100/40G ports
8520-48XT-6C	Extreme 8520-48XT Switch with two empty power supply slots, six empty fan slots; Ships with one 4-post rack mount kit; Supports 48x10/1G copper ports and 6x100/40G fiber ports
8520-48XT-6C-AC-F	Extreme 8520-48XT Switch with front-back airflow; Ships with two AC power supplies, six fans, one 4-post rack mount kit; Supports 48x10/1G copper ports and 6x100/40G fiber ports
8520-48XT-6C-AC-R	Extreme 8520-48XT Switch with back-front airflow; Ships with two AC power supplies, six fans, one 4-post rack mount kit; Supports 48x10/1G copper ports and 6x100/40G fiber ports
8520-48XT-6C-DC-F	Extreme 8520-48XT Switch with front-back airflow; Ships with two DC power supplies, six fans, one 4-post rack mount kit; Supports 48x10/1G copper ports and 6x100/40G fiber ports
8520-48XT-6C-DC-R	Extreme 8520-48XT Switch with back-front airflow; Ships with two DC power supplies, six fans, one 4-post rack mount kit; Supports 48x10/1G copper ports and 6x100/40G fiber ports
8000-PRMR-LIC-P	Extreme 8000 Premier Feature License (includes Integrated Application Hosting)

# Supported power supplies, fans, and rack mount kits

XN-ACPWR-1600W-F	SLX 9740 Fixed AC 1600W Power Supply Front to Back. Power cords not
VIN-ACLANK-TOOOAA-L	included.
XN-ACPWR-1600W-R	SLX 9740 Fixed AC 1600W Power Supply Back to Front. Power cords not
XIV-ACPVVR-1600VV-R	included.
XN-DCPWR-1600W-F	SLX 9740 Fixed DC 1600W Power Supply Front to Back. Power cords not
XIV-DCF VVIX-1000VV-I	included.
XN-ACPWR-1600W-F	SLX 9740 Fixed AC 1600W Power Supply Front to Back. Power cords not
AN-ACI WIN-1000W-I	included.
XN-FAN-003-F	SLX 9740 FAN Front to Back airflow for SLX9740-40C
XN-FAN-003-R	SLX 9740 FAN Back to Front airflow for SLX9740-40C
XN-FAN-004-F	SLX 9740 FAN Front to Back airflow for SLX9740-80C
XN-FAN-004-R	SLX 9740 FAN Back to Front airflow for SLX9740-80C
XN-4P-RKMT299	2-Post Rail Kit for SLX 9740-40C
XN-2P-RKMT300	2-Post Rail Kit for SLX 9740-80C
XN-4P-RKMT301	4-Post Rail Kit for SLX 9740-80C
XN-4P-RKMT302	4-Post Rail Kit for SLX 9740-40C
XN-ACPWR-750W-F	AC 750W PSU, Front to Back Airflow supported on VSP 7400, SLX 9150, SLX
AIN-ACPVVR-750VV-F	9250, X695, Extreme 8720, Extreme 8520
XN-ACPWR-750W-R	AC 750W PSU, Back to Front Airflow supported on VSP 7400, SLX 9150, SLX
AIN-ACP VVN-7 JUVV-N	9250, X695, Extreme 8720, Extreme 8520
XN-DCPWR-750W-F	DC 750W PSU, Front to Back Airflow supported on VSP 7400, SLX 9150, SLX
AN-DCF VVII-750VV-I	9250, X695, Extreme 8720, Extreme 8520
XN-DCPWR-750W-R	DC 750W PSU, Back to Front Airflow supported on VSP 7400, SLX 9150, SLX
AN DEL VIN 750VV IN	9250, X695, Extreme 8720, Extreme 8520
XN-FAN-001-F	Front to back Fan for use in VSP 7400, SLX 9150, SLX 9250, X695, Extreme
7.1.7.1.7.001.1	8720, Extreme 8520
XN-FAN-001-R	Back to Front Fan for use in VSP 7400, SLX 9150, SLX 9250, X695, Extreme
	8720, Extreme 8520
XN-4P-RKMT298	Four post rack mount rail kit supported on VSP 7400, SLX 9150, SLX 9250,
	X695, Extreme 8720, Extreme 8520
XN-2P-RKMT299	Two post rack mount rail kit supported on VSP 7400, SLX 9150, SLX 9250,
	X695, Extreme 8720, Extreme 8520

# Supported Optics and Cables

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

# Supported FEC modes

# SLX 9250 and Extreme 8720

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

# SLX 9740

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

# SLX 9150 and Extreme 8520

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

100G	SR4	RS-FEC	RS-FEC Disabled
100G	LR4	Disabled	RS-FEC Disabled
25G(Native)	DAC	Auto-Neg	RS-FEC FC-FEC Auto-Neg Disabled
25G(Native)	SFP	FC-FEC	RS-FEC FC-FEC Disabled

## SLX 9540 and SLX 9640

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

# Software Download and Upgrade

For more information about the various methods of upgrading to SLX-OS 20.3.4a, see the *Extreme SLX-OS Software Upgrade Guide*.

# Image files

Download the following images from www.extremenetworks.com.

Image file name	Description
SLX-OS_20.3.4a.tar.gz	SLX-OS 20.3.4a software
SLX-OS_20.3.4a_mibs.tar.gz	SLX-OS 20.3.4a MIBS
SLX-OS_20.3.4a.md5	SLX-OS 20.3.4a md5 checksum
SLX-OS_20.3.4a-digests.tar.gz	SLX-OS 20.3.4a sha checksum
SLX-OS_20.3.4a-releasenotes.pdf	Release Notes

Notes:

 $\label{thm:continuous} \mbox{Upgrade to 20.3.x from earlier releases requires "fullinstall" due to change in glibc for all platforms.}$ 

# Extreme 8720

То	20.2.3x	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
From						
20.2.3(MFG)	Use the normal Firmware Download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.3ab	Use the normal Firmware Download / coldboot	Use fullinstall			Use fullinstall	Use fullinstall
20.2.3x	NA	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.3.2/a/b	Use fullinstall	NA	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.
20.3.2c/d	Use fullinstall	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.
20.3.3	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot

То	20.2.3x	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
From						
20.3.4	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot
20.3.4a	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA

# SLX 9740

То	20.2.2x	20.2.3_CR	20.2.3x	20.3.1	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
From									
20.2.1a	Usethe normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.2x	Use the normal Firmware Download / coldboot*	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.3_CR	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.3x	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.3.1	Use fullinstall	Use fullinstall	Use fullinstall	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.

То	20.2.2x	20.2.3_CR	20.2.3x	20.3.1	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
From									
20.3.2/a/b	Use fullinstall	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.
20.3.2c/d	Use fullinstall	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.
20.3.3	Use fullinstall	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot.	Use the normal Firmware Download / coldboot.
20.3.4	Use fullinstall	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot

To From	20.2.2x	20.2.3_CR	20.2.3x	20.3.1	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
20.3.4a	Use fullinstall	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA

<sup>\*</sup>within the patches

#### Note:

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

This restriction is not there for upgrade/downgrade between 20.2.3x and 20.3.x releases.

# SLX 9540 and SLX 9640

To From	20.2.2a/b/c	20.2.3a to 20.2.3h	20.3.1	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
18r.2.00, 18r.2.00 a/b/c	For SLX 9540:  1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.2.2a/b/c using fullinstall.  For SLX 9640:	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to targeted 20.2.3 version using fullinstall. For SLX 9640:	For SLX 9540:  1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.1 version using fullinstall. For SLX 9640:	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to targeted 20.3.2 version using fullinstall. For SLX 9640:	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.2d version using fullinstall. For SLX 9640: 1. First upgrade to	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.3 version using fullinstall. For SLX 9640:  1. First upgrade to	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.4 version using fullinstall. For SLX 9640:  1. First upgrade to	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.4a version using fullinstall. For SLX 9640: 1. First upgrade to

To From	20.2.2a/b/c	20.2.3a to 20.2.3h	20.3.1	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
	1. First	1. First	1. First	1. First	18r.2.00d via	18r.2.00d via	18r.2.00d via	18r.2.00d via
	upgrade to	upgrade to	upgrade to	upgrade to	fullinstall.	fullinstall.	fullinstall.	fullinstall.
	18r.2.00d via	18r.2.00d via	18r.2.00d via	18r.2.00d via	2. Then	2. Then	2. Then	2. Then
	fullinstall.	fullinstall.	fullinstall.	fullinstall.	upgrade to	upgrade to	upgrade to	upgrade to
	2. Then	2. Then	2. Then	2. Then	20.1.2h using	20.1.2h using	20.1.2h using	20.1.2h using
	upgrade to	upgrade to	upgrade to	upgrade to	fullinstall.	fullinstall.	fullinstall.	fullinstall.
	20.1.2h using	20.1.2h using	20.1.2h using	20.1.2h using	3. Then	3. Then	3. Then	3. Then
	fullinstall.	fullinstall.	fullinstall.	fullinstall.	upgrade to	upgrade to	upgrade to	upgrade to
	3. Then	3. Then	3. Then	3. Then	20.3.2d	20.3.3 version	20.3.4 version	20.3.4a
	upgrade to	upgrade to	upgrade to	upgrade to	version using	using	using	version using
	20.2.2a/b/c	targeted	20.3.1	targeted	fullinstall.	fullinstall.	fullinstall.	fullinstall.
	using	20.2.3 version	version using	20.3.2				
	fullinstall.	using	fullinstall.	version using				
		fullinstall.		fullinstall.				
18r.2.00	For SLX 9540	For SLX 9540 :	For SLX 9540	For SLX 9540 :				
d	:		:					
		1. First		1. First				
	1. First	upgrade to	1. First	upgrade to				
	upgrade to	20.1.2h using	upgrade to	20.1.2h using				
	20.1.2h using	fullinstall.	20.1.2h using	fullinstall.	fullinstall.	fullinstall.	fullinstall.	fullinstall.
	fullinstall.	2. Then	fullinstall.	2. Then				
	2. Then	upgrade to	2. Then	upgrade to				
	upgrade to	targeted	upgrade to	targeted	20.3.2d	20.3.3 version	20.3.4 version	20.3.4a
	20.2.2a/b/c	20.2.3 version	20.3.1	20.3.2	version using	using	using	version using
	using	using	version using	version using	fullinstall.	fullinstall.	fullinstall.	fullinstall.
	fullinstall.	fullinstall.	fullinstall.	fullinstall.				
					For SLX 9640:	For SLX 9640:	For SLX 9640:	For SLX 9640:
	For SLX 9640:	For SLX 9640:	For SLX 9640:	For SLX 9640:				
					1. First	1. First	1. First	1. First
	1. First	1. First	1. First	1. First	upgrade to	upgrade to	upgrade to	upgrade to
	upgrade to	upgrade to	upgrade to	upgrade to	20.1.2h using	20.1.2h using	20.1.2h using	20.1.2h using
					fullinstall.	fullinstall.	fullinstall.	fullinstall.

To From	20.2.2a/b/c	20.2.3a to 20.2.3h	20.3.1	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
-	20.1.2h using	20.1.2h using	20.1.2h using	20.1.2h using	2. Then	2. Then	2. Then	2. Then
	fullinstall.	fullinstall.	fullinstall.	fullinstall.	upgrade to	upgrade to	upgrade to	upgrade to
	2. Then	2. Then	2. Then	2. Then	20.3.2d	20.3.3 version	20.3.4 version	20.3.4a
	upgrade to	upgrade to	upgrade to	upgrade to	version using	using	using	version using
	20.2.2a/b/c	targeted	20.3.1	targeted	fullinstall.	fullinstall.	fullinstall.	fullinstall.
	using	20.2.3 version	version using	20.3.2				
	fullinstall.	using	fullinstall.	version using				
		fullinstall.		fullinstall.				
20.1.1	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :
		1. First		1. First	1. First	1. First	1. First	1. First
	1. First	upgrade to	1. First	upgrade to	upgrade to	upgrade to	upgrade to	upgrade to
	upgrade to	20.1.2h using	upgrade to	20.1.2h using	20.1.2h using	20.1.2h using	20.1.2h using	20.1.2h using
	20.1.2h using	fullinstall.	20.1.2h using	fullinstall.	fullinstall.	fullinstall.	fullinstall.	fullinstall.
	fullinstall.	2. Then	fullinstall.	2. Then	2. Then	2. Then	2. Then	2. Then
	2. Then	upgrade to	2. Then	upgrade to	upgrade to	upgrade to	upgrade to	upgrade to
	upgrade to	targeted	upgrade to	targeted	20.3.2d	20.3.3 version	20.3.4 version	20.3.4a
	20.2.2a/b/c	20.2.3 version	20.3.1	20.3.2	version using	using	using	version using
	using fullinstall.	using fullinstall.	version using fullinstall.	version using fullinstall.	fullinstall.	fullinstall.	fullinstall.	fullinstall.
					For SLX 9640:	For SLX 9640:	For SLX 9640:	For SLX 9640:
	For SLX 9640:	For SLX 9640:	For SLX 9640:	For SLX 9640:				
					Use	Use	Use	Use
	Use	Use	Use	Use	fullinstall	fullinstall	fullinstall	fullinstall
	fullinstall	fullinstall	fullinstall	fullinstall				
20.1.2e,	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
g								
20.2.1a	Use the	Use the	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
	normal	normal						
	Firmware	Firmware						
	Download	Download						
	/ coldboot	/ coldboot						

To From	20.2.2a/b/c	20.2.3a to 20.2.3h	20.3.1	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
20.2.2x	NA	Use the normal Firmware Download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.3x	Use the normal Firmware Download / coldboot	NA	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.3.1	Use fullinstall	Use fullinstall	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.
20.3.2/a /b	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.	Use the normal Firmware Download / coldboot. For downgrade use fullinstall.
20.3.2c/ d	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot. For	Use the normal Firmware Download / coldboot. For	Use the normal Firmware Download / coldboot. For

To From	20.2.2a/b/c	20.2.3a to 20.2.3h	20.3.1	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
						downgrade use fullinstall.	downgrade use fullinstall.	downgrade use fullinstall.
20.3.3	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot
20.3.4	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot
20.3.4a	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA

#### Notes:

- When upgrading from the 18r.1.00x and 18r.2.00a and earlier patches, upgrade first to 18r.2.00bx and then to 20.2.2x, which is a two-step upgrade procedure.
- The MCT upgrade procedure from 18r.2.00bc to 20.2.x is detailed in the Extreme SLX-OS Software Upgrade Guide.
- Because SLX 9540 is a bare metal device, use the "fullinstall" option to migrate between the SLX-OS 20.2.2x and SLX-OS 20.1.x releases.
- Because SLX9540 is moved to the bare metal mode in 20.2.1, use 'fullinstall' when migrating between SLX-OS 20.2.2x and SLX-OS 2.1.x releases.
- Upgrade to 20.3.x from earlier releases requires "fullinstall" due to change in glibc.
- Downgrading from 20.3.x/20.2.2x/20.2.3x to 20.1.1 requires 'fullinstall' option for all platforms due to a change in glibc
- Downgrading from 20.3.x/20.2.2x/20.2.3x to 20.1.1 may not require a 2-step procedure.

# SLX 9150 and SLX 9250

То	20.2.2x	20.2.3_CR	20.2.3x	20.3.1	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
From									
20.1.1	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.1.2x	Use the normal firmware download / coldboot	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.1x	Use the normal firmware download / coldboot	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.2x	Use the normal firmware download / coldboot*	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.3_CR	Use the normal firm ware download / coldboot	NA	Use the normal firm ware download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall

То	20.2.2x	20.2.3_CR	20.2.3x	20.3.1	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
From									
20.2.3x	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot	NA	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.3.1	Use fullinstall	Use fullinstall	Use fullinstall	NA	Use the normal firm ware download / coldboot				
20.3.2/a/b	Use fullinstall	Use fullinstall	Use fullinstall	Use the normal firm ware download / coldboot	NA	Use the normal firm ware download / coldboot			
20.3.2c/d	Use fullinstall	Use fullinstall	Use fullinstall	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot	NA	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot
20.3.3	Use fullinstall	Use fullinstall	Use fullinstall	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot	NA	Use the normal firm ware download / coldboot	Use the normal firm ware download / coldboot

To From	20.2.2x	20.2.3_CR	20.2.3x	20.3.1	20.3.2/a/b	20.3.2c/d	20.3.3	20.3.4	20.3.4a
20.3.4	Use fullinstall	Use fullinstall	Use fullinstall	Use the normal firm ware download / coldboot	NA	Use the normal firm ware download / coldboot			
20.3.4a	Use fullinstall	Use fullinstall	Use fullinstall	Use the normal firm ware download / coldboot	NA				

<sup>\*</sup>within the patches

### Extreme 8520

То	20.3.3	20.3.4	20.3.4a
From			
20.3.3	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot
20.3.4	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot
20.3.4a	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA

## SLX TPVM Support Matrix for 9150 and 9250, Extreme 8520 and Extreme 8720

SLX Build	TPVM – Fresh Install Supported	EFA
20.2.2	TPVM-4.1.1	EFA-2.3
20.2.2a	TPVM-4.1.2	EFA-2.3.x
20.2.2b	TPVM-4.1.2	EFA-2.3.x
20.2.3	TPVM-4.2.2	EFA-2.4.x, EFA-2.3.x
20.2.3a	TPVM-4.2.3	EFA-2.4.x, EFA-2.3.x, EFA-2.5x *
20.3.1	TPVM-4.2.4	EFA-2.4.x
20.3.2/a/b/c	TPVM-4.2.5	EFA-2.4.x, EFA-2.5x
20.3.2d	TPVM-4.3.0	EFA-2.4.x, EFA-2.5x
20.3.3	TPVM-4.2.5	EFA-2.5x
20.3.4	TPVM-4.4.0	EFA-2.5x
20.3.4a	TPVM-4.4.0	EFA-2.6.0

<sup>\*</sup> EFA-2.4.x feature parity in 20.2.3d

#### Note

Extreme 8720 and Extreme 8520 are supported from 20.3.3 onwards.

Upgrading the TPVM without configuration persistence (Legacy upgrade method)

## Upgrading TPVM from 4.0.x or 4.1.x to 4.2.x , 4.3.x, 4.4.x

Consider the following when upgrading TPVM from 20.1.2x , 20.2.2/x to 20.2.3x, 20.3.1 to 20.3.2x, 20.3.3, 20.3.4x

- SLX-OS 20.3.x, 20.2.3/x has TPVM 4.2.x. SLX-OS 20.1.2x variants have TPVM 4.0.x, which is based on Ubuntu18.
- To upgrade from TPVM 4.0 to latest, take the following steps:
  - O Upgrade to SLX-OS 20.3.x, 20.2.3/x with existing TPVM continue to run

- Remove existing TPVM using the tpvm stop and tpvm uninstall commands.
- Copy the new tpvm-4.x.x-0.amd64.deb to /tftpboot/SWBD2900 on the SLX device.
- o Install TPVM 4.x.x using the **tpvm install** or **tpvm deploy** command.
- Note that any additional TPVM disks, including vdb (implicitly created by TPVM 4.0.x or 4.1.x), are preserved with data during the previous steps.
- If you need to remove the disks and start clean, then use the tpvm uninstall force command in place of tpvm uninstall in these steps. Alternatively, you can use tpvm disk remove name < disk name > to remove each additional disk manually. For example, tpvm disk remove name vdb.

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

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

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

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

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

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

#### Notes:

Security updates are added to the TPVM, there is a change in size of TPVM image to ~2.3 GB. This TPVM package contains Ubuntu security patches available up to 11<sup>th</sup> November, 2021.

VDB disk size for EFA has changed to 40 GB to accommodate storage for snapshot and the remaining space is considered as reserved space, for the new TPVM installation.

Upgrading the TPVM with configuration persistence – Recommended method Consider the following when upgrading TPVM from 20.1.2x, 20.2.2/x, 20.3.x to 20.3.2x, 20.3.3, 20.3.4x

- 1. SLX-OS old version with tpvm instance installed/deployed and few related config may be set.
- 2. SLX-OS upgrade done vide "firmware download" CLI command.
- 3. Across SLX-OS reboots, old TPVM too shall reboot if auto-boot config was there, else shall be there in installed state.
  - a. tpvm stop
  - **b.** tpvm uninstall
    - i. (or) tpvm uninstall force if plan to delete disk vdb (i.e. TPVM /apps partition).
    - ii. Note:
      - 1. New mode like Old mode, create disk vdb (/apps) by default upon first install/deploy or reuse previously existing partition.
      - **2.** Currently new mode does not support new disk creation. Old "tpvm disk add" can be used.
- 4. As simple example for new mode deploy:
  - a. Copy new TPVM debian Image under /tftpboot/SWBD2900. Only one file should be there and no subfolder.
  - b. Deploy TPVM in Config Mode:

```
SLX # config terminal
SLX (config) # tpvm TPVM
SLX (config-tpvm-TPVM) # deploy
SLX (config-tpvm-TPVM) # end
```

Above will install and start any TPVM image kept under /tftpboot/SWBD2900.

c. Deploy TPVM with some configuration and later update any runtime configuration:

```
SLX # config terminal

SLX (config)# tpvm TPVM

SLX (config-tpvm-TPVM) # password newpassword

SLX (config-tpvm-TPVM) # interface management ip 10.25.24.21/24

SLX (config-tpvm-TPVM) # auto-boot

SLX (config-tpvm-TPVM) # hostname newhostname

SLX (config-tpvm-TPVM) # timezone Europe/Stockholm

SLX (config-tpvm-TPVM) # deploy

SLX (config-tpvm-TPVM) # end

SLX # config terminal

SLX (config)# tpvm TPVM

SLX (config-tpvm-TPVM) # hostname oldhostname

SLX (config-tpvm-TPVM) # no timezone

SLX (config-tpvm-TPVM) # exit
```

#### 5. Note:

a. Now if say "tpvm config hostname xyz" command is used. It will still work and apply on TPVM instance. But this config shall not be persisted in SLX Database and will become inconsistent. Same true for any other config done in old way.

- b. As in above example, password, management config should always be set before deploy. If required later, refer User Guide and use tpvm stop, start for such update/maintenance reason.
- c. tpvm uninstall [force], if used, then you shall need "no deploy" and deploy, in new mode.

For more information on configuring TPVM Configuration Persistence, refer the 'Management Configuration Guide' for SLX-OS 20.3.2x.

### **TPVM Migration**

Upgrading the SLX OS to 20.3.2x, 20.3.3, 20.3.4x results in the creation of TPVM entries in SLX running-config implicitly (This happens when upgrading TPVM from SLX OS 20.1.2x, SLX OS 20.2.2/x, SLX OS 20.3.x to SLX OS 20.3.2x, 20.3.3, 20.3.4x)

Consider the following when upgrading TPVM from SLX OS 20.1.2x, SLX OS 20.2.2/x, SLX OS 20.3.x to SLX OS 20.3.2x, 20.3.3, 20.3.4x

- a. SLX-OS old version with tpvm instance installed/deployed and few related config may be set in legacy exec CLI method
- b. SLX-OS upgrade done with "firmware download" CLI command.
- c. Across SLX-OS reboot, TPVM entries are created in SLX running-config implicitly as part of the TPVM migration feature
- d. Check the configuration are persisted in TPVM using the CLI "show running configuration tpvm"
- e. For TPVM upgrade to the latest version use command "tpvm upgrade ... "

## Limitations and Restrictions

#### Copy flash to startup and reload with TPVM

setNTPServer and setLDAPServer statuses are reported as failed in "show tpvm status-history". After reload, TPVM is expected to be running when the above configurations are re-applied. When the TPVM is not running and the NTP and LDAP configurations are applied, these errors are seen. This is a limitation as reapplying NTP and LDAP configurations are not supported.

#### **TPVM Migration**

The following table lists the various TPVM configurations and their migration status.

Configuration	Migration State	Notes
tpvm auto-boot	Migrated	
tpvm disk	Not Migrated	Disk configuration is not supported in the configuration mode, and therefore, not migrated.
tpvm password	Migrated	Only the old password is migrated. This is due to the password being encrypted and stored and it is not

		possible to know if the password
		was changed during the migration.
tpvm config ntp	Migrated	
tpvm config dns	Migrated	
tpvm config Idap	Migrated	Secure LDAP require certificates. It is assumed that certificates are already downloaded and installed. Certificates are not validated during this migration. A notification will be sent to the user to reconfigure LDAP certificate settings.
tpvm config hostname	Migrated	
tpvm config timezone	Migrated	
tpvm deploy <interface> allow-pwless</interface>	Not Migrated	This is the new default configuration and is not migrated.
tpvm deploy mgmt [ dhcp   static ]	Migrated	
tpvm deploy insight	Not Migrated	Insight interface configuration is not supported when configuring using the Privilege Execution Mode commands.
tpvm config Idap ca-cert	Not Migrated	
tpvm config trusted-peer	Not Migrated	All trusted-peer configurations are not migrated.

## Additional information on TPVM Commands

Following list of TPVM commands under exec mode may not be supported in the future releases. The equivalent commands will continue to be available under config mode. Please refer to latest CLI documentation.

- tpvm config dns
- tpvm config hostname
- tpvm config ldap
- tpvm config ntp
- tpvm config timezone
- tpvm config trusted-peer
- tpvm auto-boot
- tpvm deploy
- tpvm password

### 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> <li>If 0/3 or 0/4 is 40G, you cannot configure 0/1 as 4x25G breakout.</li> <li>If 0/1 is 4x10G breakout, you cannot configure 0/3 as 4x25G breakout.</li> <li>If 0/3 is 4x10G breakout, you cannot configure 0/1 as 4x25G breakout.</li> <li>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.</li> <li>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.</li> </ul>
If 4x25G breakout is configured, no 40G or 4x10G.	<ul> <li>If 0/1 is configured as 4x25G breakout, you cannot configure 0/3 or 0/4 as 40G.</li> <li>If 0/1 is configured as 4x25G breakout, you cannot configure 0/3 as 4x10G breakout.</li> <li>If 0/3 is configured as 4x25G breakout, you cannot configure 0/1 or 0/2 as 40G.</li> <li>If 0/3 is configured as 4x25G breakout, you cannot configure 0/1 as 4x10G breakout.</li> </ul>

#### QoS

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

## Others

- sflow sampling is not working for VLL when BUM rate limiting is applied on interface in SLX 9740
- sflow sample traffic to CPU is rate limited. You can use the **qos cpu slot** command to change the
- The **show running ip prefix-list <name>** command can take a long time to complete in a scaled prefix-list configuration.

- When Resilient Hashing CLI is enabled or disabled, or the max-path value is changed, it may cause BFD sessions in related VRFs to go down. However, BFD sessions in unrelated VRFs will not be affected.
- Resilient Hashing supports 16K flowset entries for SLX 9740, and 32K flowset entries for SLX 9150/9250.

## **Open Config Telemetry Support**

- 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

The following software defects are open in SLX-OS 20.3.4a as of **February 2022**:

Parent Defect ID:	SLXOS-63282	Issue ID:	SLXOS-63956		
Severity:	S1 - Critical				
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4		
Technology Group:	Monitoring	Technology:	Port Mirroring		
Symptom:	On SLX 9740, flow based mirroring is not working for flow matching				
	deny rules with the configured ACL				
Condition:	configure mirror action in deny rule , traffic matching deny rule are				
	not mirrored.				

Parent Defect ID:	SLXOS-63941	Issue ID:	SLXOS-63959		
Severity:	S2 - Major				
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2bb		
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border		
	Routing/Network		Gateway Protocol		
	Layer				
Symptom:	Unexpected reload of the switch				
Condition:	During the SNMP walk with 1 M routes learnt from real internet feed,				
	when any route among the learnt routes has a longer BGP AS path				
	attribute.				

Parent Defect ID:	SLXOS-63121	Issue ID:	SLXOS-63966		
Severity:	S2 - Major				
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4		
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis		
			Trunking		
Symptom:	"show cluster track" command does not display correct interface				
	status				
Condition:	Interface status is not displayed as 'down' under 'show cluster track'				
	when port-channel becomes down due to the minimum-link criteria				
	not being met.				

Parent Defect ID:	SLXOS-62863	Issue ID:	SLXOS-63967	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	1+ sec of traffic loss is observed during a border leaf reload.			
Condition:	Reloading one of SLX-9	740 border leaf's in a M	CT configuration	

Parent Defect ID:	SLXOS-63023	Issue ID:	SLXOS-63981		
Severity:	S3 - Moderate				
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2g		
Technology Group:	Management	Technology:	Software Installation		
			& Upgrade		
Symptom:	Device will boot to ONIE on bootrom, and waits for ever.				
Condition:	Doing firmware downgrade from 20.2.3 to 20.1.2 via USB.				
Workaround:	Use methods of firmwa	are download, other tha	n the USB.		

Parent Defect ID:	SLXOS-63253	Issue ID:	SLXOS-63990
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	MCT Cluster peer-interface Port-channel flaps few times		
Condition:	On reloading one of the border leaf nodes in the MCT configuration,		
	ICL port-channel flaps, while the reloaded node is coming online. This happens when more than 5000 BFD sessions are established over the		
	VxLAN tunnel.		

Parent Defect ID:	SLXOS-63118	Issue ID:	SLXOS-63991	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4	
Technology Group:	Other	Technology:	Other	
Symptom:	2nd and 3rd BO ports of 8520-48XT and 8520-48Y do not come up when OIR is done and they are connected to Spirent or a SLX 9150 respectively.			
Condition:	When OIR is done on 8520-48XT or 8520-48Y devices.			
Workaround:	Remove and configure	Remove and configure the breakout config or reload the device.		

Parent Defect ID:	SLXOS-62353	Issue ID:	SLXOS-63992
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Layer 2 Switching	Technology:	VXLAN - Virtual
			Extensible LAN
Symptom:	VRF traffic loss is greater than 1sec upon spine node reboot.		
Condition:	Upon spine reboot, few BFD sessions from compute nodes to border-		
	leaf flap and traffic loss	s for 1-2 sec is observed.	

Parent Defect ID:	SLXOS-63092	Issue ID:	SLXOS-63993
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4

Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	Convergence times of	upto 800 msec is seen w	hen an interface from	
	the Gateway towards t	he Border Leaf is shut do	own	
Condition:	There is a port channel	between PE router and	the Border leaf. The	
	minimum-links is confi	gured in the port channe	l. One of the physical	
	interfaces in the port channel is shut and the minimum-link			
	configuration brings down the port channel.			
	The convergence time for the traffic from the border leaf towards the			
	gateway is sometimes seen to be in the range of 500-800 msec.			
Workaround:	Using only BGP routes and configuring Prefix-Independent-			
	Convergence can provide better convergence times than having static			
	routes.			

Parent Defect ID:	SLXOS-62668	Issue ID:	SLXOS-63994
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	L2sys daemon terminates on one of the MCT cluster node		
Condition:	During MCT cluster node bring up after transitioning the Multi		
	Homing EVPN config to	MCT config using config	g script

Parent Defect ID:	SLXOS-61371	Issue ID:	SLXOS-63996
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2
Technology Group:	Other	Technology:	Other
Symptom:	On SLX 9740, and breakout port cli command on a port-macro group,		
	can cause other ports in same group to flap sometimes.		
Condition:	Issue is seen when the	breakout command is co	onfigured.

Parent Defect ID:	SLXOS-62922	Issue ID:	SLXOS-64001	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2d	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	Some IPV4 BGP sessions gets deleted only after BGP hold timer			
	expires even though BFD has gone down			
Condition:	When configuring with Extreme Fabric Automation(EFA), and			
	EPG(End Point Group) is removed in the local node. Issue in the			
	symptom is seen on the	e remote node.		

Parent Defect ID:	SLXOS-63182	Issue ID:	SLXOS-64025
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Sometimes the switch reload is seen in a scaled environment.		
Condition:	In scaled environment and BGP PIC configuration is enabled, when		
	routes are learned thro	ough BGP and are getting	g processed.

Parent Defect ID:	SLXOS-59118	Issue ID:	SLXOS-64026
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Overlay traffic loss of 2+ second		
Condition:	In BGP EVPN based Multihoming solution, one of the leaf node going		
	through reload.		

Parent Defect ID:	SLXOS-60298	Issue ID:	SLXOS-64028	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2a	
Technology Group:	Other	Technology:	Other	
Symptom:	One of the BFD session	over MCT flaps on clust	er node. There is no	
	visible traffic loss as su	ch because the other Mo	CT peer takes the	
	traffic over ICL and for	wards it to CCEP DUT (fro	om L3 GW).	
Condition:	On reload and system i	maintenance turn-off on	an SLX8720 cluster	
	node.			
	System scale:			
	32 VRFs, at least 2 BFD over MCT, 2 HW BFD and 2 BFD over VxLAN			
	session per VRF. (one IPv4 and one IPv6) (First 20 VRFs have 10+ BFD			
	over MCT sessions towards CCEP DUTs, last 12 VRFs have 2 BFD over			
	MCT sessions towards CCEP DUTs)			
	All VE interfaces configured across all devices are dual stack.			
	SW BFD sessions: 393			
	HW BFD sessions: 65			
	960 IPv4 routes, 960 IP	v6 routes from L3 GW.		
	960 IPv4 routes, 960 IPv6 routes from CCEP DUTs.			
	System-wide route scale: 3K IPv4 and 3K IPv6			
Workaround:	issue seen on Ve's atta	ched to BDs. Remove the	e VE from BD and	
	reconfigure.			

Parent Defect ID:	SLXOS-58198	Issue ID:	SLXOS-64030
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3c
Technology Group:	Other	Technology:	Other
Symptom:	ICL interface is not coming up.		
Condition:	After the BGP process is killed.		

Parent Defect ID:	SLXOS-62135	Issue ID:	SLXOS-64194
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00b
Technology Group:	Monitoring	Technology:	RAS - Reliability,
			Availability, and
			Serviceability
Symptom:	Logs indicating flash size usage crossing high boundary		
Condition:	/var/log/hasm.log file size is large, with no impact on functionality		

Parent Defect ID:	SLXOS-64409	Issue ID:	SLXOS-64409
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4a
Technology Group:	Management	Technology:	CLI - Command Line
			Interface
Symptom:	TPVM configuration is lost when the device reloads with default		
	configuration during firmware update.		
Condition:	Issue happens when "default-config" option is provided in "firmware		
	download" command.		
Workaround:	Execute following commands - "copy default-config startup-config"		
	and then "firmware download" command without "default-config"		
	option.		

The following software defects are open in SLX-OS 20.3.4 as of **December 2021**:

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

Parent Defect ID:	SLXOS-42488	Issue ID:	SLXOS-42488
Severity:	S3 - Moderate		

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</list-name>		
	sometimes doesnt 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 <pre< th=""><th>efix-list-name&gt;</th></pre<>	efix-list-name>

Parent Defect ID:	SLXOS-46276	Issue ID:	SLXOS-46276
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
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 modif	ied, please issue "clear b	gp evpn neighbor all"

Parent Defect ID:	SLXOS-46419	Issue ID:	SLXOS-46419	
Severity:	S3 - Moderate			
Product:	SLX-OS	SLX-OS Reported in Release: SLXOS 20.1.1		
Technology Group:	Monitoring	Technology:	Port Mirroring	
Symptom:	QoS service-policy con	QoS service-policy configuration is not allowed on a mirror		
	destination port-chann	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-47644	Issue ID:	SLXOS-47644
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Security	Technology:	ACLs - Access Control
			Lists
Symptom:	OSPF neighbourship doesn't go down after applying IP ACL on the		
	interface		
Condition:	Applying IP ACL after OSPF neighbourship up.		
Workaround:	Clear OSPF neighbourship after IP ACL applied.		

Parent Defect ID:	SLXOS-50693	Issue ID:	SLXOS-50693
Severity:	S2 - Major		
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 st	at bridge-domain x"	

Parent Defect ID:	SLXOS-51794	Issue ID:	SLXOS-51822	
Severity:	S2 - Major			
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 are not			
	incrementing for priority traffic classes.			
Condition:	Traffic manager CLI cor	Traffic manager CLI command: "show tm voq-stat" is executed.		

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

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

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

Parent Defect ID:	SLXOS-52506	Issue ID:	SLXOS-52506
Severity:	S2 - Major		
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 configuri	ing ip prefix-list	

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

Parent Defect ID:	SLXOS-52746	Issue ID:	SLXOS-53722
Severity:	S3 - Moderate		
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-55198	Issue ID:	SLXOS-55198
Severity:	S2 - Major		
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 FE	C for specified port.	

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

Parent Defect ID:	SLXOS-55266	Issue ID:	SLXOS-55266
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Layer 2 Switching	Technology:	VLAN - Virtual LAN
Symptom:	On SLX 9740, ARP is not resolved and Source mac is not learned when		
	the incoming IP packet	s are Priority Tagged (Vla	an-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 me	thods available.	

		I	I	
Parent Defect ID:	SLXOS-55569	Issue ID:	SLXOS-55569	
Severity:	S3 - Moderate	S3 - Moderate		
Product:	SLX-OS	SLX-OS Reported in Release: SLXOS 20.1.2c		
Technology Group:	Layer 2 Switching <b>Technology:</b> VLAN - Virtual LAN			
Symptom:	L2 Loop not detected and blocked			
Condition:	Loop-detection feature doesn't detect and block L2 loop when			
	provisioned on Ethernet or Port-channel interface			
Workaround:	Configure loop-detection on VLAN to which Ethernet or Port-channel			
	is member. This will de	tect the loop and block i	t.	

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

Parent Defect ID:	SLXOS-56576	Issue ID:	SLXOS-56576
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a
Technology Group:	Other	Technology:	Other
Symptom:	On SLX 9740, when the user upgrades software from 20.2.2a to a		
	later release, device becomes unreachable when accessing through		
	an in-band port.		

Condition:	Software upgrade through in-band port.
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Parent Defect ID:	SLXOS-56675	Issue ID:	SLXOS-56675
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3a
Technology Group:	Other	Technology:	Other
Symptom:	WARNING message, Unqualified SFP transceiver for interface		
	Ethernet 0/x is detected.		
Condition:	Insert 100G LR4 optic (	EQPT1H4LR4LCL100) op	tics.

Parent Defect ID:	SLXOS-56861	Issue ID:	SLXOS-56861
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2b
Technology Group:	Other	Technology:	Other
Symptom:	Sometimes, a unrelated interface can go down when an optic is inserted.		
Condition:	A new optic is inserted in SLX 9740.		

Parent Defect ID:	SLXOS-57031	Issue ID:	SLXOS-57031	
Severity:	S2 - Major	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.1	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	SLXOS BGP process may crash and router will get rebooted			
Condition:	If the user tries to remove L2VPN EVPN address family			
Workaround:	Deactivate BGP neighbors under L2VPN EVPN address family. And			
	then remove the L2VPI	N EVPN address family.		

Parent Defect ID:	SLXOS-57274	Issue ID:	SLXOS-57274	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2b	
Technology Group:	Management	Technology:	CLI - Command Line	
			Interface	
Symptom:	On execution of "show run route-map" command with route map name like "show run route-map <route-map-name>" it throws error.</route-map-name>			
Condition:	Issue is seen when "show run route-map" command is invoked with route map name.			
Workaround:		As a workaround command "show run route-map" can be executed and it will display the output for all configured route maps.		

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

Parent Defect ID:	SLXOS-55211	Issue ID:	SLXOS-57437	
Severity:	S2 - Major			
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 add	Use IPv4 interface address		

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

Parent Defect ID:	SLXOS-56740	Issue ID:	SLXOS-57454
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3a
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Convergence times > 500 msec are seen for South - North traffic		
	when a port from Border Leaf to L3 gateway is shut		
Condition:	This is a test for convergence numbers. The port between a Border		
	Leaf and an L3 gateway is shut which forces the BL to reprogram the		
	next hop for the South - North traffic to go over the ICL. The		
	convergence times vary and there are occasional spikes between 800		
	to 1000 msec.		

Parent Defect ID:	SLXOS-57371	Issue ID:	SLXOS-57471
Severity:	S3 - Moderate		

Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3b
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	Few BFD sessions will flap once during system bring up.		
Condition:	On 9740, during system bring up after reload.		

Parent Defect ID:	SLXOS-57721	Issue ID:	SLXOS-57721
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2b
Technology Group:	Management	Technology:	CLI - Command Line
			Interface
Symptom:	When we are pinging the destination with the domain name, output		
	will be in decimal format(IP address instead of domain name)		
Condition:	When the firmware is SLXOS 20.1.2, SLXOS 20.2.1 or above ping will		
	have the output in IP a	ddress instead of domai	n name.

Parent Defect ID:	SLXOS-57738	Issue ID:	SLXOS-57738
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2f
Technology Group:	MPLS	Technology:	IP over MPLS
Symptom:	Hops are not displayed in IPoMPLS trace		
Condition:	During traceroute of IPoMPLS traffic		

Parent Defect ID:	SLXOS-57753	Issue ID:	SLXOS-57853
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00h
Technology Group:	MPLS	Technology:	LDP - Label
			Distribution Protocol
Symptom:	Unexpected reload.		
Condition:	On continuous MPLS interface flap for every 60 seconds run for		
	minimum 5 hrs, to re-e	stablish LDP tunnels.	

Parent Defect ID:	SLXOS-57929	Issue ID:	SLXOS-57929
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.2.00b
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Possible unexpected reload may be observed		
Condition:	User uses cmsh CLI mode to display BGP process internal data using		
	"show ip bgp debug co	mmand"	

Parent Defect ID:	SLXOS-58198	Issue ID:	SLXOS-58198
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3c
Technology Group:	Other	Technology:	Other
Symptom:	ICL interface is not coming up.		
Condition:	After the BGP process is killed.		

Parent Defect ID:	SLXOS-58576	Issue ID:	SLXOS-58798
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3c
Technology Group:	Management	Technology:	Other
Symptom:	https not started after registeration		
Condition:	Device registeration. Not reproduced after last occurence.		
Workaround:	Reimport certificates and perform https restart via CLI - http server		
	use-vrf mgmt-vrf shut a	and no http server use-v	rf mgmt-vrf shut

Parent Defect ID:	SLXOS-59050	Issue ID:	SLXOS-59050
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	Discrepancy between the configured interface status and displayed		
	status		
Condition:	Running config shows that the interface is "no shutdown" but the		
	interface state is show	n as administratively dov	wn

Parent Defect ID:	SLXOS-59440	Issue ID:	SLXOS-59440
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Dynamic BGP session won't come up		
Condition:	BGP session won't com	e up with MD5 passwor	d configuration

Parent Defect ID:	SLXOS-59457	Issue ID:	SLXOS-59457
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.1
Technology Group:	Security	Technology:	RADIUS
Symptom:	Unexpected reload of SLX.		
Condition:	SLX may reload after many REST queries on behalf of RADIUS users		
	when "peap-mschap" is	s configured as RADIUS p	orotocol.

Parent Defect ID:	SLXOS-60172	Issue ID:	SLXOS-60176
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3ea
Technology Group:	Other	Technology:	Other
Symptom:	We may see flap of any	random interface durin	g the bootup time of
	the device. The device can be SLX 9740, SLX 9250, Extreme 8720, SLX		
	9150.		
Condition:	Sometimes Port flap is	seen on a device during	bootup.

Parent Defect ID:	SLXOS-60308	Issue ID:	SLXOS-60308
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.1
Technology Group:	Other	Technology:	Other
Symptom:	On SLX 9740, traffic egressing out of a router port or an L3 port		
	channel show incorrect statistics value.		
Condition:	L3 route traffic egressing out of a router port or an I3 port channel.		
Workaround:	1. Create a new VE and move the ve configuration that is exhibiting		
	this extra counter display to the new VE.		
	2. Leave the previous VE in its place (it will still display all egressing		
	traffic out of a router p	ort or l3 po on it).	

Parent Defect ID:	SLXOS-60682	Issue ID:	SLXOS-60682
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.1
Technology Group:	Other	Technology:	Other
Symptom:	Interface Link flap is observed.		
Condition:	Speed is configured on the interface		

Parent Defect ID:	SLXOS-60302	Issue ID:	SLXOS-60754
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2a
Technology Group:	Layer 3 Routing/Network	Technology:	Static Routing (IPv4)
	Layer		
Symptom:	Shutting down the uplink port channel from the border leaf to the L3 gateway leads to traffic convergence of nearly 1 second		
Condition:	gateway. There are 32 routes.  There is a port-channel port-channel is shut at from the border leaf no	s the border leaf pair an VRFs configured and the between the BL nodes a a border leaf node and to de to its peer along the d to be more than expec	and the gateway. The the traffic is redirected ICL. The convergence

With static routes, the convergence times are in the order of 1
second. With only BGP routes and PIC enabled, it was upto around
730 msec.

Parent Defect ID:	SLXOS-60298	Issue ID:	SLXOS-60757
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2a
Technology Group:	Other	Technology:	Other
Symptom:	One of the BFD session	over MCT flaps on clust	er node. There is no
	visible traffic loss as su	ch because the other Mo	CT peer takes the
	traffic over ICL and for	wards it to CCEP DUT (fro	om L3 GW).
Condition:	On reload and system r	maintenance turn-off on	an Extreme 8720
	cluster node.		
	System scale:		
	32 VRFs, at least 2 BFD over MCT, 2 HW BFD and 2 BFD over VxLAN		
	session per VRF. (one IPv4 and one IPv6) (First 20 VRFs have 10+ BFD		
	over MCT sessions towards CCEP DUTs, last 12 VRFs have 2 BFD over		
	MCT sessions towards CCEP DUTs)		
	All VE interfaces configured across all devices are dual stack.		
	SW BFD sessions: 393		
	HW BFD sessions: 65		
	960 IPv4 routes, 960 IP		
	960 IPv4 routes, 960 IPv6 routes from CCEP DUTs.		
	System-wide route scale: 3K IPv4 and 3K IPv6		
Workaround:		ched to BDs. Remove the	e VE from BD and
	reconfigure.		

Parent Defect ID:	SLXOS-60534	Issue ID:	SLXOS-60767
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2a
Technology Group:	Layer 3	Technology:	ARP - Address
	Routing/Network		Resolution Protocol
	Layer		
Symptom:	Traffic loss maybe seen for any particular Host.		
Condition:	1. Centralized Routing and Border Leaf has MCT cluster configured.		
	2. One of the MCT nodes goes for a reload.		

Parent Defect ID:	SLXOS-60895	Issue ID:	SLXOS-60895	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.1	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	The switch reloads sometime due to hslagtd deamon termination on			
	illeagal memory access	illeagal memory access.		

Condition:	In a scaled up configuration and with a very high number of routes
	learnt with BGP protocol.

Parent Defect ID:	SLXOS-60448	Issue ID:	SLXOS-60912	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2a	
Technology Group:	Management	Technology:	Configuration	
			Fundamentals	
Symptom:	DHCP/BOOTP request is seen sending out from mgmt. interface event			
	after disable DHCP.			
Condition:	BMC is configured as DHCP client.			
Recovery:	Manually disable DHCP	Manually disable DHCP option from BMC .		

Parent Defect ID:	SLXOS-60970	Issue ID:	SLXOS-60970	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	On SLX 9640. while programming 500 flowspec rules to hardware, a			
	BFD session is down due to "Detection Time Expired" which in turn			
	terminates BGP session. Some BGP sessions flapping are due to this.			
Condition:	In scaled setup, 500 BG	In scaled setup, 500 BGP-flow spec rules are programmed in		
	hardware			

Parent Defect ID:	SLXOS-61003	Issue ID:	SLXOS-61003
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.1
Technology Group:	IP Multicast	Technology:	IGMP - Internet
			Group Management
			Protocol
Symptom:	PING may take more time than expected.		
Condition:	1. There should be L2 loop in the topology for a given vlan.		
	2. IGMP snooping OR PIM-SM is enabled on this interface.		
	3. IGMP query should be either received OR Generated by the node.		
Workaround:	Please remove the L2 l	oop.	

Parent Defect ID:	SLXOS-60989	Issue ID:	SLXOS-61096
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Layer 3	Technology:	ARP - Address
	Routing/Network		Resolution Protocol
	Layer		
Symptom:	Traffic loss maybe seen for ~4 seconds for few traffic streams		

Parent Defect ID:	SLXOS-61120	Issue ID:	SLXOS-61167
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3b
Technology Group:	Layer 2 Switching	Technology:	VLAN - Virtual LAN
Symptom:	Access to SLX management port is not working.		
Condition:	Ping packet drop is seen if it passes through VLAN before turning back		
	on the mgmt. interface.		
Workaround:	Enable L3 VE interface	on the VLAN	

Parent Defect ID:	SLXOS-61209	Issue ID:	SLXOS-61209
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	Broadcast, unknown unicast and Multicast traffic loss		
Condition:	Remote client interface shutdown followed by no cluster-client auto		
	and cluster-client auto under local client interface		

Parent Defect ID:	SLXOS-60632	Issue ID:	SLXOS-61217
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2a
Technology Group:	Other	Technology:	Other
Symptom:	Tpvm status shows "Last Runtime error"		
Condition:	Upon upgrading from 20.3.2a to 20.3.2b		
Recovery:	tpvm stop and tpvm start		

Parent Defect ID:	SLXOS-60946	Issue ID:	SLXOS-61257
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2
Technology Group:	MPLS	Technology:	LDP - Label
			Distribution Protocol
Symptom:	Juniper rejects the LDP	init messages sent by SI	X when SLX is active,
	when the max pdu field	d is set to a value higher	than default of 4096
Condition:	SLX is active peer, and	link PDU for l3 has been	set to higher than
	4096		

Parent Defect ID:	SLXOS-61208	Issue ID:	SLXOS-61283
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Other	Technology:	Other
Symptom:	SLX 9540 device does not respond		

Condition:	Taking suppotsave when the free memory is below 600Mb.	
Recovery:	Power off/on the device	

Parent Defect ID:	SLXOS-61458	Issue ID:	SLXOS-61527
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Other	Technology:	Other
Symptom:	When the encrypted password string has "\" or "?" in the startup		
	config, ? or \ is missed in the running-config after config restore and		
	TPVM login will be faile	ed	
Condition:	Encrypted password string should not have these charater "\" or "?"		
Workaround:	TPVM password command needs to be executed till the encrypted		
	password string doesn't have the '\' and '?'.		
Recovery:	TPVM password command needs to be executed again to recover		
	TPVM login		

Parent Defect ID:	SLXOS-60951	Issue ID:	SLXOS-61576	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3e	
Technology Group:	Layer 2 Switching	Technology:	LAG - Link	
			Aggregation Group	
Symptom:	MAC address of port-cl	nannel INTF changes who	en system is reloaded	
	after performing un-co	nfig and then config of p	ort channel interfaces.	
Condition:	MAC address of port ch	nannel interfaces change	in below two cases;	
	1. Without reload - Port-channel interfaces are configured. Some of			
	the port-channel interfaces are un-configured, and configured again			
	without any specific sequence.			
	2. Port-channel Interfaces config and un-config is done without any			
	particular sequence. Th	particular sequence. Then config is saved and system is reloaded.		
Workaround:	For SLX 9540, SLX 9640 and SLX 9740,			
	Some number of port-channel INTF can be created in the incremental			
	order interface index. ( say , port-channel 1, then port-channel 2,,			
	then port-channel 10 ). Now, config can be saved, and these port-			
	channel are kind or reserved for future use. With these steps			
	followed, MAC address of port-channel interfaces will not change			
	with reload as well.			

Parent Defect ID:	SLXOS-61347	Issue ID:	SLXOS-61598
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2c
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	In Multi-homed environment, shutdown of an LACP ES Port-channel		
	may cause traffic flooding to other ES interfaces if the client/host		
	device is not able to detect link flap and continue to send the traffic.		

	Whenever LACP port-channel is shut, member ports will be		
	disaggregated and laser will be down for few msec(around 100ms) to		
	allow peer device to detect link event. After that link comes up and		
	member port will be transitioned to disaggregated individual port.		
	Some old devices may not be able to detect link flap and continue to		
	send traffic for some more time till LACP timeout.		
Condition:	Some old hosts may not be able to detect link flap when the link goes		
	down for short period of time. SLX 9150/9250 keep the link down for		
	100msec before bring up the link as lacp individual.		
	If the dual homed host is not able to detect the link flap on LACP ESI		
	shut, the host continues to send the traffic till LACP timeout. SLX		
	device may flood the traffic (in vlan) during that period.		
Workaround:	Shutting the individual member ports along with ES port-channel		
	avoids flooding in this scenario.		
Recovery:	This situation will be recovered automatically after LACP timeout.		
	Client device detects LACP timeout after 3sec (in case of short lacp		
	interval), and stops traffic.		

Parent Defect ID:	SLXOS-61510	Issue ID:	SLXOS-62106
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2c
Technology Group:	Management	Technology:	Software Installation
			& Upgrade
Symptom:	a) If the device is reloaded, running-configs is not retained with auto persistence enable as dcmd database is not present. b) If the device is not reloaded and do a normal fwdl or fullinstall, no issue will be seen.		
Condition:	If "firmware download + noreboot" is issued and later if the "firmware commit" is done and rebooted the device.		
	Tirmware commit is o	ione and repooted the d	evice.

Parent Defect ID:	SLXOS-62115	Issue ID:	SLXOS-62126
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Management	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	SNMP trap is not sent for Loopback interface which is a VTEP, during		
	cluster bring-up after a reload.		
Condition:	Reload of switch that is in a MCT cluster. SNMP trap is not sent when		
	an interface comes up. Issue is seen when VTEP comes up as part of		
	cluster bring-up after r	eload.	

Parent Defect ID:	SLXOS-61371	Issue ID:	SLXOS-62218
Severity:	S2 - Major		

Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2
Technology Group:	Other	Technology:	Other
Symptom:	Breakout port cli command on a port-macro group, can cause other		
	ports in same group to flap sometimes.		
Condition:	Issue is seen when the	breakout command is co	onfigured

Parent Defect ID:	SLXOS-62256	Issue ID:	SLXOS-62256
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	CCEP Port-channel flaps		
Condition:	With more than 96 Port-channels as MCT clients, and traffic running		
	with COS priority of 6 or 7 - when one of the MCT node is reloaded,		
	we see some of the CC	EP Port-channels flappin	g on other MCT node.

Parent Defect ID:	SLXOS-62220	Issue ID:	SLXOS-62276
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2b
Technology Group:	IP Multicast	Technology:	IGMP - Internet
			Group Management
			Protocol
Symptom:	Switch reload and Link flaps on interface.		
Condition:	The switch receives igmp traffic from peer (with a large length value),		
	on an L3 interface with	no multicast configurat	ion.

Parent Defect ID:	SLXOS-62270	Issue ID:	SLXOS-62361	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2c	
Technology Group:	Monitoring	Technology:	Port Mirroring	
Symptom:	When VLAN is configur	When VLAN is configured as source in monitor session, mirroring		
	stops working after rebooting device			
Condition:	Configure flow based mirroring session with VLAN as source			
Workaround:	1)Delete Monitor configuration			
	2)Remove the ACL binding from the VLAN interface			
	3)Configure monitor session with VLAN as source			
	4)Bind L2 ACL on the V	LAN interface.		

Parent Defect ID:	SLXOS-62440	Issue ID:	SLXOS-62454
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2d
Technology Group:	Monitoring	Technology:	Port Mirroring
Symptom:	Flow based mirroring keeps mirroring the packets, after the monitor		
	session is deleted.		

Condition:	Flow based mirroring is configured with source as normal ethernet
	and L3 ACL is applied on the interface. Then monitor configuration is deleted.
Recovery:	Rebind the ACL on the mirror source interface.

Parent Defect ID:	SLXOS-62507	Issue ID:	SLXOS-62712
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2c
Technology Group:	Layer 2 Switching	Technology:	VXLAN - Virtual
			Extensible LAN
Symptom:	HSLagt daemon crash		
Condition:	HSLagt daemon termination is seen when VxLAN tunnel creation and		
	deletion operations ha	ppen at very quick inter	val

Parent Defect ID:	SLXOS-62754	Issue ID:	SLXOS-62754
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Security	Technology:	ACLs - Access Control
			Lists
Symptom:	On SLXOS 9740 only, BFD session flaps on an interface.		
Condition:	Egress ACL and BFD are configured on the specific interface.		
Workaround:	Use below permit rule for allowing the BFD packets		
	permit udp any any eq 3784		
	permit udp any any	y eq 4784	

Parent Defect ID:	SLXOS-62773	Issue ID:	SLXOS-62773
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Some BGP EVPN ND routes are not flushed in BGP EVPN table alone		
	when one MH node comes out from MM and traffic is not getting		
	forwarded for those ND routes		
Condition:	This EVPN ND routes sync issue happens inconsistently when one MH		
	node comes out from N	ИM	

Parent Defect ID:	SLXOS-62525	Issue ID:	SLXOS-62811
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Other	Technology:	Other
Symptom:	Traffic may be dropped	when packets come in	via VEoVPLS tunnel.
Condition:	MAC learning events may fail when packets come in via VEoVPLS		
	tunnel for MAC learnin	g.	

Parent Defect ID:	SLXOS-62863	Issue ID:	SLXOS-62863
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 3 Routing/Network	Technology:	BGP4 - IPv4 Border Gateway Protocol
	Layer		
Symptom:	1+ sec of traffic loss is observed during a border leaf reload.		
Condition:	Reloading one of SLX-9	740 border leaf's in a M	CT configuration

Parent Defect ID:	SLXOS-60455	Issue ID:	SLXOS-62870
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00ch
Technology Group:	Layer 2 Switching	Technology:	xSTP - Spanning Tree
			Protocols
Symptom:	RPVST flaps on SLX device		
Condition:	when root bridge chan	ge occurs without any us	ser intervention

Parent Defect ID:	SLXOS-62861	Issue ID:	SLXOS-62897
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g
Technology Group:	Layer 3	Technology:	VRRPv2 - Virtual
	Routing/Network		Router Redundancy
	Layer		Protocol Version 2
Symptom:	SAG will become inactive after boot		
Condition:	When multiple VE interfaces are configured with same gateway-		
	address, after reboot, the SAG will become inactive.		
Workaround:	Remove and reconfigu	re the anycast address	

Parent Defect ID:	SLXOS-62540	Issue ID:	SLXOS-62902
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	A cluster link port towards primary border leaf (BL2) does not come		
	up after doing "shut"/'	'no-shutdown"	
Condition:	One of the cluster link ports towards primary border leaf (BL2) was		
	shutdown. After about 30 seconds no shut was performed on the		
	same port.		
Workaround:	Perform a "shutdown"	/"no shutdown" on the I	ink

Parent Defect ID:	SLXOS-61178	Issue ID:	SLXOS-62976
Severity:	S3 - Moderate		

Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3d
Technology Group:	Layer 3	Technology:	ICMP - Internet
	Routing/Network		Control Message
	Layer		Protocol
Symptom:	Slowness on the ping responses on SLX.		
Condition:	On SLX node, CPU is busy with the higher priority packets.		

Parent Defect ID:	SLXOS-62308	Issue ID:	SLXOS-62979
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g
Technology Group:	Management	Technology:	Other
Symptom:	Unexpected reload of SLX switch.		
Condition:	Unqualified QSFP inserted on SLX switch and causes the SLX node to		
	reload.		

Parent Defect ID:	SLXOS-61558	Issue ID:	SLXOS-62992
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3d
Technology Group:	Management	Technology:	Other
Symptom:	Occasional TPVM CPU spike above 90% noticed for 1-2 sec.		
Condition:	Collecting EFA support-save on TPVM.		

Parent Defect ID:	SLXOS-62671	Issue ID:	SLXOS-62995
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2b
Technology Group:	Layer 3	Technology:	BGP4+ - IPv6 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Latency of around 250ms to 1second is observed on SLX device.		
Condition:	SLX node has experienced the CPU congestion		

Parent Defect ID:	SLXOS-62230	Issue ID:	SLXOS-62998	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2c	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	On SLX 9640, BGP flaps are seen sometimes			
Condition:	In a scaled environment, and when high rate of control packets are			
	processed on CPU, it ca	processed on CPU, it can lead to lead loss of BGP packets.		

Parent Defect ID:	SLXOS-62722	Issue ID:	SLXOS-63001
Severity:	S2 - Major		

Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3c
Technology Group:	Traffic Management	Technology:	QoS - Quality of
			Service
Symptom:	Packets are egressing with DSCP value as 0 value, irrespective of		
	incoming DSCP value.		
Condition:	In IP fabric environment, packets ingress at the SLX 9150 leaf switch		
	with non-zero DSCP values and egress the SLX 9250 border leaf		
	switch.		

Parent Defect ID:	SLXOS-62849	Issue ID:	SLXOS-63004	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	May experience 20-60 seconds of traffic loss.			
Condition:	On BGP re-convergence on network with below scale values,			
	where 873k+ bgp ipv4 routes + 136k+ bgp ipv6 routes made to switch			
	other path because of	other path because of manual shut on working path.		

Parent Defect ID:	SLXOS-60943	Issue ID:	SLXOS-63018
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2g
Technology Group:	Monitoring	Technology:	sFlow
Symptom:	Sflow collector is configured for user vrf		
Condition:	Sflow sample reaching sflow collector via default vrf.		

Parent Defect ID:	SLXOS-63092	Issue ID:	SLXOS-63092	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	Convergence times of a	upto 800 msec is seen w	hen an interface from	
	the Gateway towards t	he Border Leaf is shut do	own	
Condition:	There is a port channel between PE router and the Border leaf. The			
	minimum-links is configured in the port channel. One of the physical			
	interfaces in the port channel is shut and the minimum-link			
	configuration brings down the port channel.			
	The convergence time for the traffic from the border leaf towards the			
	gateway is sometimes seen to be in the range of 500-800 msec.			
Workaround:	Using only BGP routes and configuring Prefix-Independent-			
	Convergence can provide better convergence times than having static			
	routes.			

Parent Defect ID:	SLXOS-62353	Issue ID:	SLXOS-63106	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b	
Technology Group:	Layer 2 Switching	Technology:	VXLAN - Virtual	
			Extensible LAN	
Symptom:	VRF traffic loss is greater than 1sec upon spine node reboot.			
Condition:	Upon spine reboot, few BFD sessions from compute nodes to border-			
	leaf flap and see a traf	leaf flap and see a traffic loss for 1-2 sec		

Parent Defect ID:	SLXOS-63115	Issue ID:	SLXOS-63115
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Security	Technology:	ACLs - Access Control
			Lists
Symptom:	On SLX 9740, Ingress ipv6 access-list counters do not increment in		
	ipv6-optimised tcam profile		
Condition:	User has configured to use ipv6-optimised tcam profile and has		
	configured counters for matching ipv6 access-list rules. Issued "clear		
	counters" cli command	<b>l.</b>	

Parent Defect ID:	SLXOS-63118	Issue ID:	SLXOS-63118
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Other	Technology:	Other
Symptom:	2nd and 3rd BO ports of Extreme 8520-48XT and Extreme 8520-48Y		
	do not come up when OIR is done and they are connected to Spirent or a SLX 9150 respectively.		
Condition:	When OIR is done on Extreme 8520-48XT or Extreme 8520-48Y		
	devices.		
Workaround:	Remove and configure	the breakout config or r	eload the device.

Parent Defect ID:	SLXOS-63121	Issue ID:	SLXOS-63121
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	"show cluster track" command does not display correct interface		
	status		
Condition:	Interface status is not displayed as 'down' under 'show cluster track'		
	when port-channel becomes down due to the minimum-link criteria		
	not being met.		

Parent Defect ID:	SLXOS-61254	Issue ID:	SLXOS-63124
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00ca
Technology Group:	MPLS	Technology:	LDP - Label
			Distribution Protocol
Symptom:	Duplicate LDP Address Withdraw Message sent from LDP for each VC-		
	Peer.		
Condition:	Issue is seen when we	do "clear mac-address" (	under a bridge domain.

Parent Defect ID:	SLXOS-63182	Issue ID:	SLXOS-63182
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Sometimes the switch reload is seen in a scaled environment.		
Condition:	In scaled environment and BGP PIC configuration is enabled, when		
	routes are learned thro	ough BGP and are getting	g processed.

Parent Defect ID:	SLXOS-63253	Issue ID:	SLXOS-63253
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	MCT Cluster peer-interface Port-channel flaps few times		
Condition:	On reloading one of the	e border leaf nodes in th	e MCT configuration,
	ICL port-channel flaps, while the reloaded node is coming online. This		
	happens when more than 5000 BFD sessions are established over the		
	VxLAN tunnel.		

Parent Defect ID:	SLXOS-63282	Issue ID:	SLXOS-63282
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Monitoring	Technology:	Port Mirroring
Symptom:	On SLX 9740, flow base	ed mirroring is not worki	ng for flow matching
	deny rules with the cor	nfigured ACL	
Condition:	configure mirror action	in deny rule , traffic ma	tching deny rule are
	not mirrored.		

Parent Defect ID:	SLXOS-63289	Issue ID:	SLXOS-63289
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Monitoring	Technology:	sFlow
Symptom:	Flow based ERSPAN mi	rroring is not working in	the ingress direction.

Condition:	If the configured ERSPAN id is more than 255.	
Workaround:	Configure ERSPAN is to be less than 25	

Parent Defect ID:	SLXOS-63125	Issue ID:	SLXOS-63317
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	MAC address is not updated properly when there is MAC move		
	between MCT peer noo	des multiple times.	
Condition:	In the IP fabric, the MA	C move happens between	en the MCT peer
	nodes.		

# Defects Closed with Code Changes

The following software defects were closed in 20.3.4a with a code change as of **February 2022**:

Parent Defect ID:	SLXOS-62526	Issue ID:	SLXOS-62534
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Layer 2 Switching	Technology:	VXLAN - Virtual
			Extensible LAN
Symptom:	Multicast traffic from remote leaf loops back to the source node and multi-home client receives duplicate traffic		
Condition:	homing node, the traff	sent over the VxLAN tunic is not dropped at the ped back to the source nate traffic.	non-DF multi-homing

Parent Defect ID:	SLXOS-63125	Issue ID:	SLXOS-63316
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	MAC address is not updated properly when there is MAC move		
	between MCT peer not	des multiple times.	
Condition:	In the IP fabric, the MA	C move happens between	en the MCT peer
	nodes.		

Parent Defect ID:	SLXOS-61209	Issue ID:	SLXOS-63964
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	Broadcast, unknown unicast and Multicast traffic loss		
Condition:	Remote client interface shutdown followed by no cluster-client auto		
	and cluster-client auto	under local client interfa	ace

Parent Defect ID:	SLXOS-61120	Issue ID:	SLXOS-63969
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3b
Technology Group:	Layer 2 Switching	Technology:	VLAN - Virtual LAN
Symptom:	Access to SLX management port is not working.		
Condition:	Ping packet drop is seen if it passes through VLAN before turning back		
	on the mgmt. interface.		

Parent Defect ID:	SLXOS-63974	Issue ID:	SLXOS-63977
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	BGP flaps could be seen during high scale of BGP packets to CPU if it		
	hits threshold rate-limit.		
Condition:	BGP flaps could be seen during high scale of BGP packets to CPU if it		
	hits threshold rate-limi	t.	

Parent Defect ID:	SLXOS-63289	Issue ID:	SLXOS-63989
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Monitoring	Technology:	sFlow
Symptom:	Flow based ERSPAN mirroring is not working in the ingress direction.		
Condition:	If the configured ERSPAN id is more than 255.		

Parent Defect ID:	SLXOS-62256	Issue ID:	SLXOS-63995
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	CCEP Port-channel flaps		
Condition:	With more than 96 Port-channels as MCT clients, and traffic running		
	with COS priority of 6 or 7 - when one of the MCT node is reloaded,		
	we see some of the CC	EP Port-channels flappin	g on other MCT node.

Parent Defect ID:	SLXOS-64022	Issue ID:	SLXOS-64022
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	MAC address is not updated properly when there is MAC move		
	between MCT peer nodes multiple times.		
Condition:	In the IP fabric, the MAC move happens between the MCT peer		
	nodes.		

Parent Defect ID:	SLXOS-63334	Issue ID:	SLXOS-64110
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00j
Technology Group:	MPLS	Technology:	MPLS VLL - Virtual
			Leased Line

Symptom:	User may experiences one way traffic over VLL usually during failover
	to bypass path.
Condition:	Rarely, hardware fails to delete transit cross-connect, and hardware
	continues to have stale Label in MPLS forwarding table.
Workaround:	Software state can be brought in sync by flapping all the MPLS
	enabled interfaces.

Parent Defect ID:	SLXOS-64141	Issue ID:	SLXOS-64142
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2d
Technology Group:	Management	Technology:	Other
Symptom:	In case, when file replay takes place during reboot of the switch and the configuration file contains CLI for Maintenance Mode - "enable-on-reboot", then log "RASLOG SMAN-1004" is generated twice. This indicates system is entering into maintenance Mode.		
Condition:	During system reload, as in case of "full-instal	when the configuration f	ile replay takes place

Parent Defect ID:	SLXOS-63036	Issue ID:	SLXOS-64415
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Management	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	During bootup, SNMP traps for link status of VE and loopback		
	interfaces are sent even when "snmp trap lnk-status disable" is		
	configured for the interfaces		
Condition:	Issue is seen only during bootup for VE and loopback interfaces that		
	are not shutdown.		

The following software defects were closed in 20.3.4 with a code change as of **December 2021**:

Parent Defect ID:	SLXOS-51569	Issue ID:	SLXOS-51843
Severity:	S2 - Major		
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 0/4	1-80). On BD deletion, th	ne CFM sessions are up
Condition:	Bridge domain (BD) is o	configured with logical in	iterfaces on breakout
	front panel ports of the	e series 0/41-80.	

Parent Defect ID:	SLXOS-56079	Issue ID:	SLXOS-56079	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2b	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	The switch might reload unexpectedly after a BGP process failure.			
Condition:	On SLX 9740, that is configured as a border leaf MCT node, and BGP is			
	configured with BFD is enabled for all the BGP peering sessions.			
	Sometimes on a reload	Sometimes on a reload of one of the border leaf switch, BFD sessions		
	flap unexpectedly and	can cause BGP session re	eset.	

Parent Defect ID:	SLXOS-58073	Issue ID:	SLXOS-58073
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3b
Technology Group:	Layer 2 Switching	Technology:	Other
Symptom:	VPLS traffic terminating towards TPVM insight interface is trapped to		
	CPU instead of forwarding it out of switch.		
Condition:	TPVM insight interface is the AC interface(attachment circuit) for the		
	VPLS terminating pack	ets.	

Parent Defect ID:	SLXOS-58421	Issue ID:	SLXOS-58421
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3b_CVR
Technology Group:	Other	Technology:	Other
Symptom:	Console is not able to use, due to continuously getting the SMBus Message "i801_smbus 0000:00:1f.4: SMBus is busy".		
Condition:	After reload the device. the console is getting continuously "i801_smbus 0000:00:1f.4": SMBus Message.		

Parent Defect ID:	SLXOS-59936	Issue ID:	SLXOS-59936
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2
Technology Group:	Monitoring	Technology:	Port Mirroring
Symptom:	On SLX-9740, ACL based Egress mirroring does not mirror traffic from		
	source port in the transmit direction.		
Condition:	Monitor session is created with "tx" direction and flow-based. After		
	Egress ACL is applied with "mirror" action on the source port, the		
	transmit direction traff	ic is not mirrored.	

Parent Defect ID:	SLXOS-60558	Issue ID:	SLXOS-60963
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3d

Technology Group:	Management	Technology:	CLI - Command Line
			Interface
Symptom:	"ip ospf area" configuration missing on some interfaces associated		
	with OSPF instance enabled on non-default VRF		
Condition:	upgrade from 20.1.2x to 20.2.3x code		

Parent Defect ID:	SLXOS-61077	Issue ID:	SLXOS-61094
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Layer 2 Switching	Technology:	VXLAN - Virtual
			Extensible LAN
Symptom:	L2agt daemon terminates on EVPN-MH Leaf node		
Condition:	Sometimes I2agt daemon reload may be seen when the uplink port is		
	flapped a few times or	a EVPN multihoming no	ode

Parent Defect ID:	SLXOS-61014	Issue ID:	SLXOS-61273
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2a
Technology Group:	Management	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	BGP ipv4 traps will not be sent from SLX.		
Condition:	When bgp ipv4 session is established and if the bgp session is made		
	up or down, default bgp ipv4 traps meant for session up/down for		
	ipv4 peers will not be s	sent from slx.	

Parent Defect ID:	SLXOS-61332	Issue ID:	SLXOS-61332
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	The ICL port link is flapping for some time, and traffic convergence		
	takes more than 10 sec.		
Condition:	Reloading the CCEP device.		

Parent Defect ID:	SLXOS-61339	Issue ID:	SLXOS-61409		
Severity:	S3 - Moderate				
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2a		
Technology Group:	Layer 2 Switching	Technology:	Other		
Symptom:	When QOS profile is set as "lossless" and cee default exists, the				
	interfaces which are in LLDP UP state sends DOT1-TLV also. This is not				
	exepcted.				
Condition:	When QOS profile is se	t as "lossless" and cee d	When QOS profile is set as "lossless" and cee default exists.		

Parent Defect ID:	SLXOS-61523	Issue ID:	SLXOS-61523
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Management	Technology:	Other
Symptom:	Bootup can sometimes fail on Extreme 8720/8520 and sometimes the		
	management link fails to come up.		
Condition:	On switch bootup.		

Parent Defect ID:	SLXOS-61515	Issue ID:	SLXOS-61557
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	After mac-move the MAC is still displayed as Dynamic-CCL		
Condition:	After a mac-move from remote leaf and then between a MCT peers,		
	the MAC is displayed a	s Dynamic-CCL instead o	f CCR

Parent Defect ID:	SLXOS-61573	Issue ID:	SLXOS-61573
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Layer 3	Technology:	ARP - Address
	Routing/Network		Resolution Protocol
	Layer		
Symptom:	Ipv6 Neighbor is not updated with correct MAC address		
Condition:	In IP fabric scenario, virtual machine or the host moves from remote		
	leaf to the local leaf wi	th different mac.	

Parent Defect ID:	SLXOS-61937	Issue ID:	SLXOS-62241
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Monitoring	Technology:	Hardware Monitoring
Symptom:	IPv4 Flow based mirroring with VLAN as source does not work.		
Condition:	Configure IPv4 flow based mirroring with source as VLAN and then		
	reload the Device.		

Parent Defect ID:	SLXOS-62268	Issue ID:	SLXOS-62268
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Other	Technology:	Other
Symptom:	On reload of the switch, sometimes the 100gig SR4 optic link may not		
	come up.		
Condition:	On switch bootup.		

Parent Defect ID:	SLXOS-62311	Issue ID:	SLXOS-62323
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3e
Technology Group:	Management	Technology:	Software Installation
			& Upgrade
Symptom:	Firmware download and firmware download sanity NETCONF		
	requests are failing.		
Condition:	Firmware host password has a special character '&' char in the		
	password		

Parent Defect ID:	SLXOS-62111	Issue ID:	SLXOS-62364
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Management	Technology:	CLI - Command Line
			Interface
Symptom:	CLI command "show running-config snmp-server host <ip-address>"</ip-address>		
	displays error for some	specific host IP address	es.
Condition:	When multiple host entries are configured, and if the numerically sorted order and lexicographically sorted order of host IP addresses		
	are different.	ograpilically sorted order	of flost in addresses

Parent Defect ID:	SLXOS-62334	Issue ID:	SLXOS-62386
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	BGP session may get impacted due to internal BGP rate-limit in		
	transient router on 9540/9640 devices.		
Condition:	BGP session may get impacted when high rate of BGP traffic is send		
	via transient router 95	40/9640.	

Parent Defect ID:	SLXOS-62526	Issue ID:	SLXOS-62526	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3	
Technology Group:	Layer 2 Switching	Technology:	VXLAN - Virtual	
			Extensible LAN	
Symptom:	Multicast traffic from r	Multicast traffic from remote leaf loops back to the source node and		
	multi-home client receives duplicate traffic			
Condition:	When multicast traffic sent over the VxLAN tunnel to EVPN Multi-			
	homing node, the traffic is not dropped at the non-DF multi-homing			
	node. The traffic is looped back to the source node and multi-homed			
	clients receives duplica	ite traffic.		

Parent Defect ID:	SLXOS-61207	Issue ID:	SLXOS-62595
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2b
Technology Group:	Monitoring	Technology:	Syslog
Symptom:	The literal "BOM" is replaced with hexadecimal values "EF.BB.BF" as		
	per RFC.		
Condition:	when the format "RFC-	5424" is enabled for sys	log-ng.

Parent Defect ID:	SLXOS-62457	Issue ID:	SLXOS-62623
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2c
Technology Group:	Security	Technology:	ACLs - Access Control
			Lists
Symptom:	After switch reboot, user was not able to access the switch using ssh		
	using management IP.		
Condition:	Upon switch reboot		

Parent Defect ID:	SLXOS-63022	Issue ID:	SLXOS-63055
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2d
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	BFD Session flaps once in broader leaf.		
Condition:	Spine node is reloaded when SLX 9150/SLX9250/ Extreme 8720 /		
	Extreme 8520 acts as a	border leaf in Centralize	ed IP fabric.

# Defects Closed without Code Changes

The following software defect was closed in 20.3.4a without code change as of **February 2022**.

Parent Defect ID:	SLXOS-62447	Issue ID:	SLXOS-62474
Reason Code:	Feature/Function Not	Severity:	S2 - Major
	Supported		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00j
Technology Group:	MPLS	Technology:	LDP - Label
			Distribution Protocol
Symptom:	Flow Label sync is not done after HA failover in SLX 9850		
Condition:	HA is not supported in 20.x release.		

Parent Defect ID:	SLXOS-64007	Issue ID:	SLXOS-64080
Reason Code:	Already Implemented	Severity:	S2 - Major

Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	Port-channel interfaces stay down		
Condition:	On a 8720 MCT, when one of the MCT leaf reloads, port-channel		
	interfaces stay down on one end, as the LACP packets are not being		
	received.		

The following software defect was closed in 20.3.4 without code change as of **December 2021**.

Parent Defect ID:	SLXOS-45474	Issue ID:	SLXOS-45474		
Reason Code:	Will Not Fix	Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1		
Technology Group:	Traffic Management	Technology:	Traffic Queueing and		
			Scheduling		
Symptom:	In some cases mcast di	ops are observed based	on pkt size and		
	number of replications	•			
Condition:	Mcast drops will be ob	served when mcast traff	ic is sent with more		
	replications along with unicast traffic.				
Workaround:	There is no traffic loss observed with following below numbers.				
	1 G link Egress (with 40% Unicast traffic)				
	48 OIFs (6 S,G's and 8 vlans (hosts) per S,G) without seeing loss.				
	10 G link Ingress/Egress (with 40% Unicast traffic)				
	54 vlan with 6 (S,G) Multicast groups per vlan				
	100G link Ingress/10G Egress (with 40% Unicast traffic)				
	42 vlan with 6 (S,G) Mu	ılticast groups per vlan	42 vlan with 6 (S,G) Multicast groups per vlan		

Parent Defect ID:	SLXOS-51407	Issue ID:	SLXOS-51407	
Reason Code:	Design Limitation	Severity:	S3 - Moderate	
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 e	which the VPLS PW is established.		

Parent Defect ID:	SLXOS-55185	Issue ID:	SLXOS-55185
Reason Code:	Working as Designed	Severity:	S3 - Moderate
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2c

Technology Group:	Monitoring	Technology:	RAS - Reliability,
			Availability, and
			Serviceability
Symptom:	Few RAS logs are missing		
Condition:	After reaching the higher value of sequence number in RAS logs.		
	EX: [NSM-1020], 5610250(sequence number), DCE, INFO, SLX-R1,		
	interface Ethernet 0/x is administratively down.		

Parent Defect ID:	SLXOS-55372	Issue ID:	SLXOS-55372
Reason Code:	Design Limitation	Severity:	S2 - Major
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-account	ting	

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

Parent Defect ID:	SLXOS-59114	Issue ID:	SLXOS-59114
Reason Code:	Not Reproducible	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	BFD sessions may flap in SLX-9740.		
Condition:	On shutting down the member interface of the port-channel .		

Parent Defect ID:	SLXOS-60738	Issue ID:	SLXOS-60796
Reason Code:	Already Implemented	Severity:	S3 - Moderate
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2a

Technology Group:	Security	Technology:	AAA - Authentication,
			Authorization, and
			Accounting
Symptom:	Removing secure LDAP server(configured for TPVM) changes secure		
	LDAP server to non-secure LDAP server.		
Condition:	1. Configure LDAP server with "secure" parameter		
	2. Remove the LDAP server entry		

Parent Defect ID:	SLXOS-62156	Issue ID:	SLXOS-62156
Reason Code:	Design Limitation	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Layer 2 Switching	Technology:	Other
Symptom:	In EVPN Multi-homing environment, on repeated multiple triggers like node reload and clear-mac-dynamic operations, few macs may stuck as ES-Remote on one of the MH-node, and the same mac may be missing on peer MH-node.		
Condition:	Repeated execution of multiple triggers like MH node reload, ESI client port flag, and clear-mac-dynamic operations.		
Workaround:	ESI client port flap should clear macs on the interface.		

Parent Defect ID:	SLXOS-62153	Issue ID:	SLXOS-62192
Reason Code:	Cannot Fix	Severity:	S3 - Moderate
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Security	Technology:	User Accounts &
			Passwords
Symptom:	TPVM login is not working after upgrade from 20.3.2b to a later release		
Condition:	This happens when the TPVM login password string has a "\" character.		
Recovery:	Stop TPVM and reconfigure same password after upgrade		