

Extreme SLX-OS 20.4.2a

Release Notes

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

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Document History

Version	Summary of changes	Publication date
1.0	Initial version for 20.4.2a	October 2022

Preface

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- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

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Release Overview

Release SLX-OS 20.4.2a provides the following features:

Critical defect fixes

Release SLX-OS 20.4.2 provides the following features:

- Maintenance Mode Optimizations for IP Fabric Upgrade
- Ability to control service bindings for SNMP listening services
- Ability to disable processing of packets utilizing IP Options
- Support for Password Handling for special characters on SLX-OS
- Increased the allowed anycast-address entries per interface from 64 to 512
- Additional IPv6 protocol support on TPVM
- Additional SNMP Notification Event support from SLX
- Prefix Independent Convergence (PIC) support for static routes
- IP Fabric QoS
- Enhanced Debug/RASLOG messages for FEC support status

Release SLX-OS 20.4.1c provides the following features:

Critical defect fixes

Release SLX-OS 20.4.1b provides the following features:

- Critical defect fixes
- TPVM security patches till May 09, 2022 are included in TPVM 4.5.1

Release SLX-OS 20.4.1a provides the following features:

Critical defect fixes

Release SLX-OS 20.4.1 provides the following features:

- SLX based TPVM upgrade optimization
- Additional SNMP notification event support
- SE Linux based IMA policy
- MAC (Mandatory Access Control) policy for user space binaries
- Ability to upgrade ONIE/GRUB
- Force port 1G speed/duplex via constrained advertised capabilities
- Processing ACL rule for Tunneled traffic
- BGP Dynamic Peering Scale Enhancement
- IPV6 configuration support in TPVM
- IPv6 Support for Peer-Address in a Route Map for BGP
- BGP dampening for peer flaps
- TPVM security patches till April 03, 2022 are included in TPVM 4.5.0

Behavior Changes

The following are the behavioral changes for SLX-OS 20.4.2a

• No behavioral changes were introduced in this release.

The following are the behavioral changes for SLX-OS 20.4.2

- Default VRF bindings for SNMP listening services on SLX-OS are Management VRF and Default VRF.
- SNMP SET operation is completely unsupported.
- SNMP server view command does not take effect for the "write view" option
- SNMPv3 user delete operation requires SNMP agent to be stopped to take effect post reload.
- Boot up time for SNMP agent is delayed.
- The variable binding for 'InetAddress' type variables in Enterprise MIBs related traps BFD and MCT, is changed from 'IpAddress' to 'InetAddress'.

The following are the behavioral changes for SLX-OS 20.4.1c

• No behavioral changes were introduced in this release.

The following are the behavioral changes for SLX-OS 20.4.1b

- No behavioral changes were introduced in this release.
- TPVM security patches till May 09, 2022 are included in TPVM 4.5.1

The following are the behavioral changes for SLX-OS 20.4.1a

• No behavioral changes were introduced in this release.

The following are the behavioral changes for SLX-OS 20.4.1

- CLI threshold-monitor is modified as follows:
 - o Default action is changed from RASlog to RASlog and SNMP Trap.
 - o threshold-monitor Memory has removed parameters limit and low-limit.
 - o Default values for threshold-monitor Cpu and threshold-monitor Memory are changed.
- SNMP trap for BFD module contains additional info and is implemented via Enterprise BFD MIB.
 BFD Enterprise MIB is the default option. This means, snmp-server trap needs to be specifically configured for BFD standard MIB via newly added CLI in this release.
- TPVM patch upgrade (incremental upgrade) that helps upgrading only the patches without stopping the running TPVM instance. Use the command tpvm upgrade incremental.
- TPVM IPv6 support
- Added security patches till April 03, 2022, in TPVM 4.5.0

Software Features

The following key software features are added in the SLX-OS 20.4.2a release

• No new feature is added in this release.

The following key software features are added in the SLX-OS 20.4.2 release

Feature Name	Supported SLX Platforms	Description
Maintenance Mode Optimizations for IP Fabric Upgrade	All	Maintenance mode, which plays a key role for seamless upgrade via EFA, has been optimized to reduce the waiting time from current 300 sec to a much smaller number, say 60 sec.
		Also, link utilization on spine uplinks is monitored and based on link utilization drop, SLX device comes out of the Maintenance Mode enable stage instead of waiting for user-configured wait time (default is 300 sec).
Ability to control service bindings for SNMP listening services	All	Allows user to enable SNMP services listening on a specific VRF, incl. default and Management VRFs. User can configure up to 32 VRFs.
Ability to disable processing of packets utilizing IP Options	Extreme 8520, Extreme 8720, SLX 9150, SLX 9250, SLX 9740	Allows to disable CPU processing of the IPv4 datagrams with IP header option fields.
Support for Password Handling for special characters on SLX-OS	All	Adds capability to support all special characters to configure a password on SLX-OS.
Increased the allowed anycast-address entries per interface from 64 to 512	All	Allows to configure anycast addresses per Virtual Ethernet (VE) interface scale up to 512. The overall system scale remains at 8000.
Additional IPv6 protocol support on TPVM	All	Extends IPv6 Manageability support on TPVM. Network services such as DNS and NTP can be configured with IPv6 address. Dynamic support for Default Gateway (DGW) is also added.
Additional SNMP Notification Event support from SLX	All	SNMP Notifications for events related to hardware tables such as MAC Table, LIF, VxLAN and BFD session tables have been added

Feature Name	Supported SLX Platforms	Description
PIC support for static routes	Extreme 8520, Extreme 8720, SLX 9150, SLX 9250 and SLX 9740	PIC (Prefix Independent Convergence) support for static routes feature is added In an IP Fabric deployment, enabling this feature on a Border Leaf device will help reduce the BFD convergence time b/w Border leaf and Border/Edge gateway
IP Fabric QoS	Extreme 8520, Extreme 8720, SLX 9150, SLX 9250 and SLX 9740	Default class maps support is added for L2 and L3 VxLAN gateways.
Enhanced Debug/RASLOG messages for FEC support status	All	Display RASlog message for the FEC support on various SLX platforms

The following key software features are added in the SLX-OS 20.4.1c release

• No new feature is added in this release.

The following key software features are added in the SLX-OS 20.4.1b release

• No new feature is added in this release.

The following key software features are added in the SLX-OS 20.4.1a release

• No new feature is added in this release.

The following key software features are added in the SLX-OS 20.4.1 release

Feature Name	Supported SLX Platforms	Description
SLX based TPVM upgrade optimization	All	tpvm upgrade incremental command is introduced.
•		 avoids reinstallation of TPVM and EFA during upgrade 2 Debian files for each installation type One for full installation One for upgrade installation

Feature Name	Supported SLX Platforms	Description	
Additional SNMP Notification Event support	All	 New and enhanced SNMP notifications are added: BFD enterprise notifications with BFD session specific information Cluster up and down notifications for MCT cluster Maintenance mode traps for entry and exit transitions CPU and memory threshold monitoring traps. NTP status change trap Enhanced BGP IPv6 notifications - Established & BackwardTransition traps Enhanced Fan failure / recovery traps Enhanced Power Supply failure / recovery traps 	
SE Linux based IMA policy	All	Security Enhanced Linux is added as an additional layer of system security for access controls for the applications, processes, and files on the SLXOS system.	
MAC policy for user space binaries	All	Security Enhanced Linux (SE Linux) implements Mandatory Access Control (MAC). Every process and system resource is issued a special security label called an SE Linux context.	
Ability to upgrade ONIE/GRUB	SLX 9150, SLX 9250, Extreme 8720 and Extreme 8520	Provides the ability to install <i>onie, diag</i> and <i>onie-grub</i> images from SLXOS	
Force port 1G speed/duplex via constrained advertised capabilities	SLX 9150, Extreme 8520	Adds the support of 10G port in 1G forced mode in full duplex with clock parameter to auto negotiate based on peer capabilities	
Processing ACL rule for Tunneled traffic	SLX 9740	Supports ingress ACL on tunnels to match the inner headers for VxLAN, GRE and MPLS tunnels	
BGP Dynamic Peering Scale Enhancement	All	Increases the number of BGP peers for Dynamic BGP Peers	
IPV6 protocol support on TPVM	All	Introduces the initial support of IPv6 protocol for TPVM	
IPv6 Support for Peer- Address in a Route Map for BGP	All	Supports of set ipv6 next-hop peer-address in route-map for BGP	
BGP dampening for peer flaps	All	Adds the BGP peer dampening capability for unusable BGP peers	

CLI Commands

The following commands were added, modified, or deprecated for the 20.4.2a program

New commands for 20.4.2a

No commands were added in this release

Modified commands for 20.4.2a

No commands were modified in this release

Deprecated commands for 20.4.2a

No commands were deprecated in this release

The following commands were added, modified, or deprecated for the 20.4.2 program

New commands for 20.4.2

- convergence-time (maintenance mode)
- efa deploy
- enable-on-reboot (maintenance mode)
- maintenance-mode
- prefix-independent-convergence-static
- qos-dscp-mode
- rate-monitoring (maintenance mode)
- snmp-server use-vrf
- threshold-monitor bfd-session
- threshold-monitor lif
- threshold-monitor mac-table
- threshold-monitor vxlan-tunnel
- shutdown-time (maintenance mode)

Modified commands for 20.4.2

- dns (TPVM)
- enable (maintenance mode)
- ip option
- ntp (TPVM)
- system maintenance
- system maintenance turn-off
- trusted-peer (tpvm mode)
- tpvm download
- interface management (tpvm mode)
- snmp-server group
- snmp-server user
- show overlay-gateway
- show tunnel

- show system maintenance
- show system maintenance rate-monitoring

Deprecated commands for 20.4.2

• gos-ttl-mode

The following commands were added, modified, or deprecated for the 20.4.1c program

New commands for 20.4.1c

No commands were added in this release.

Modified commands for 20.4.1c

No commands were modified in this release.

Deprecated commands for 20.4.1c

No commands were deprecated in this release.

The following commands were added, modified, or deprecated for the 20.4.1b program

New commands for 20.4.1b

No commands were added in this release.

Modified commands for 20.4.1b

No commands were modified in this release.

Deprecated commands for 20.4.1b

No commands were deprecated in this release.

The following commands were added, modified, or deprecated for the 20.4.1a program

New commands for 20.4.1a

No commands were added in this release.

Modified commands for 20.4.1a

No commands were modified in this release.

Deprecated commands for 20.4.1a

No commands were deprecated in this release.

The following commands were added, modified, or deprecated for the 20.4.1 program

New commands for 20.4.1

neighbor peer-dampening

- neighbor peer-dampening (peer-group)
- peer-dampening
- show grubversion
- show [ip|ipv6] bgp peer-dampened
- show onieversion
- show selinux status
- snmp-server trap
- update onie

Modified commands for 20.4.1

- dns (tpvm mode)
- interface management (tpvm mode)
- ntp (tpvm mode)
- set ip next-hop
- set ipv6 next-hop
- speed
- threshold-monitor Cpu
- threshold-monitor Memory
- tpvm download
- tpvm upgrade (tpvm mode)
- vrf-lite-capability

The following show commands were enhanced to show additional information.

- show interface ethernet
- show interface status
- show ipv6 bgp routes

Deprecated commands for 20.4.1

No commands were deprecated in this release.

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

	SLX 9740 Fixed AC 1600W Power Supply Front to Back. Power cords not	
XN-ACPWR-1600W-F	included.	
VN ACDM/D 1600M/ D	SLX 9740 Fixed AC 1600W Power Supply Back to Front. Power cords not	
XN-ACPWR-1600W-R	included.	
XN-DCPWR-1600W-F	SLX 9740 Fixed DC 1600W Power Supply Front to Back. Power cords not	
VIA-DCLANK-1000AA-L	included.	
XN-ACPWR-1600W-F	SLX 9740 Fixed AC 1600W Power Supply Front to Back. Power cords not	
XIV-ACF VVIX-1000VV-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 https://optics.extremenetworks.com/.

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

Port Type	Media Type	Default FEC Mode	Supported FEC Modes
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 20.4.2a see the *Extreme SLX-OS Software Upgrade Guide*.

Image files

Download the following images from www.extremenetworks.com.

Image file name	Description
SLX-OS_20.4.2a.tar.gz	SLX-OS 20.4.2a software
SLX-OS_20.4.2a_mibs.tar.gz	SLX-OS 20.4.2a MIBS
SLX-OS_20.4.2a.md5	SLX-OS 20.4.2a md5 checksum
SLX-OS_20.4.2a-digests.tar.gz	SLX-OS 20.4.2a sha checksum
SLX-OS_20.4.2a-releasenotes.pdf	Release Notes

Notes:

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/	20.3.3	20.3.4	20.3.4a/ac	20.4.1/a/b	20.4.1c	20.4.2	20.4.2a
From		c/d							
20.2.3	Use the	Use							
(MFG)	normal	fullinstall							
	Firmware								
	Download /								
	coldboot								
20.2.3ab	Use the	Use							
	normal	fullinstall							
	Firmware								
	Download /								
	coldboot								
20.2.3x	NA	Use							
		fullinstall							
20.3.2/a/b/	Use	Use the							
c/d	fullinstall	normal							
		Firmware							
		Download /							
		coldboot.							
		For							
		downgrade							
		use							
		fullinstall.							
20.3.3	Use	Use the	NA	Use the					
	fullinstall	normal		normal	normal	normal	normal	normal	normal
		Firmware		Firmware	Firmware	Firmware	Firmware	Firmware	Firmware
		Download /		Download /					
		coldboot		coldboot	coldboot	coldboot	coldboot	coldboot	coldboot

То	20.2.3x	20.3.2/a/b/	20.3.3	20.3.4	20.3.4a/ac	20.4.1/a/b	20.4.1c	20.4.2	20.4.2a
From		c/d			-				
20.3.4	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot				
20.3.4a/ac	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot						
20.4.1/a/b	Use fullinstall	Use the normal Firmware Download / coldboot							
20.4.1c	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	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot
20.4.2	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	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot
20.4.2a	Use fullinstall	Use the normal Firmware Download / coldboot	NA						

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To From	20.2.2x	20.2.3x	20.3.1	20.3.2/a /b	20.3.2c/ d	20.3.3	20.3.4	20.3.4a/ ac	20.4.1/a /b/c	20.4.2	20.4.2a
20.2.1a	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use fullinstall								
20.2.2x	Use the normal Firmwar e Downloa d / coldboot *	Use the normal Firmwar e Downloa d / coldboot	Use fullinstall								
20.2.3x	Use the normal Firmwar e Downloa d / coldboot	NA	Use fullinstall								

To From	20.2.2x	20.2.3x	20.3.1	20.3.2/a /b	20.3.2c/ d	20.3.3	20.3.4	20.3.4a/ ac	20.4.1/a /b/c	20.4.2	20.4.2a
20.3.1	Use fullinstall	Use fullinstall	NA	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall
20.3.2/a /b	Use fullinstall	Use fullinstall	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .

To From	20.2.2x	20.2.3x	20.3.1	20.3.2/a /b	20.3.2c/ d	20.3.3	20.3.4	20.3.4a/ ac	20.4.1/a /b/c	20.4.2	20.4.2a
20.3.2c/ d	Use fullinstall	Use fullinstall	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .	Use the normal Firmwar e Downloa d / coldboot . For downgra de use fullinstall .
20.3.3	Use fullinstall	Use fullinstall	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	NA	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot
20.3.4	Use fullinstall	Use fullinstall	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	NA	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot

To From	20.2.2x	20.2.3x	20.3.1	20.3.2/a /b	20.3.2c/ d	20.3.3	20.3.4	20.3.4a/ ac	20.4.1/a /b/c	20.4.2	20.4.2a
20.3.4a/ ac	Use fullinstall	Use fullinstall	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot
20.4.1/a /b/c	Use fullinstall	Use fullinstall	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot
20.4.2	Use fullinstall	Use fullinstall	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot .	Use the normal Firmwar e Downloa d / coldboot	NA	Use the normal Firmwar e Downloa d / coldboot
20.4.2a	Use fullinstall	Use fullinstall	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	Use the normal Firmwar e Downloa d / coldboot	NA

*within the patches

Note:

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

This restriction is not applicable 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/ ac	20.4.1/a /b	20.4.1c	20.4.2	20.4.2a
18r.2.00 , 18r.2.00	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :
a/b/c	1. First upgrade to 20.1.2h using fullinstal l. 2. Then upgrade to	1. First upgrade to 20.1.2h using fullinstal l. 2. Then upgrade to	1. First upgrade to 20.1.2h using fullinstal I. 2. Then upgrade to	1. First upgrade to 20.1.2h using fullinstal l. 2. Then upgrade to	1. First upgrade to 20.1.2h using fullinstal l. 2. Then upgrade to	1. First upgrade to 20.1.2h using fullinstal I. 2. Then upgrade to	1. First upgrade to 20.1.2h using fullinstal l. 2. Then upgrade to	1. First upgrade to 20.1.2h using fullinstal l. 2. Then upgrade to	1. First upgrade to 20.1.2h using fullinstal l. 2. Then upgrade to	1. First upgrade to 20.1.2h using fullinstal I. 2. Then upgrade to	1. First upgrade to 20.1.2h using fullinstal l. 2. Then upgrade to	1. First upgrade to 20.1.2h using fullinstal l. 2. Then upgrade to
	20.2.2a/ b/c using fullinstal I. For SLX 9640:	targeted 20.2.3 version using fullinstal I. For SLX 9640:	20.3.1 version using fullinstal I. For SLX 9640:	targeted 20.3.2 version using fullinstal I. For SLX 9640:	20.3.2d version using fullinstal l. For SLX 9640:	20.3.3 version using fullinstal I. For SLX 9640:	20.3.4 version using fullinstal I. For SLX 9640:	20.3.4a version using fullinstal I. For SLX 9640:	20.4.1/a /b version using fullinstal l. For SLX 9640:	20.4.1c version using fullinstal I. For SLX 9640:	20.4.2 version using fullinstal I. For SLX 9640:	20.4.2a version using fullinstal l. For SLX 9640:

То	20.2.2a/	20.2.3a	20.3.1	20.3.2/a	20.3.2c/	20.3.3	20.3.4	20.3.4a/	20.4.1/a	20.4.1c	20.4.2	20.4.2a
	b/c	to		/b	d			ac	/b			
From		20.2.3h										
	1. First											
	upgrade											
	to											
	18r.2.00											
	d via											
	fullinstal											
	I.	I.	I.	l.	l.	I.						
	2. Then											
	upgrade											
	to											
	20.1.2h											
	using											
	fullinstal											
	I.	I.	I.	l.	l.	I.						
	3. Then											
	upgrade											
	to											
	20.2.2a/	targeted	20.3.1	targeted	20.3.2d	20.3.3	20.3.4	20.3.4a	20.4.1/a	20.4.1c	20.4.2	20.4.2a
	b/c	20.2.3	version	20.3.2	version	version	version	version	/b	version	version	version
	using	version	using	version	using	using	using	using	version	using	using	using
	fullinstal	using	fullinstal	using	fullinstal	fullinstal	fullinstal	fullinstal	using	fullinstal	fullinstal	fullinstal
	I.	fullinstal	I.	fullinstal	l.	I.	I.	I.	fullinstal	I.	I.	I.
		I.		l.					I.			
18r.2.00	For SLX											
d	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :
	1. First											
	upgrade											
	to											
	20.1.2h											
	using											

То	20.2.2a/	20.2.3a	20.3.1	20.3.2/a	20.3.2c/	20.3.3	20.3.4	20.3.4a/	20.4.1/a	20.4.1c	20.4.2	20.4.2a
	b/c	to		/b	d			ac	/b			
From		20.2.3h										
)	fullinstal											
	1.	I.										
	2. Then											
	upgrade											
	to											
	20.2.2a/	targeted	20.3.1	targeted	20.3.2d	20.3.3	20.3.4	20.3.4a	20.4.1/a	20.4.1c	20.4.2	20.4.2
	b/c	20.2.3	version	20.3.2	version	version	version	version	/b	version	version	version
	using	version	using	version	using	using	using	using	version	using	using	using
	fullinstal	using	fullinstal	using	fullinstal	fullinstal	fullinstal	fullinstal	using	fullinstal	fullinstal	fullinstal
	l.	fullinstal	I.	fullinstal	l.	I.	l.	1.	fullinstal	I.	I.	I.
		I.		l.					I.			
	For SLX		For SLX		For SLX	For SLX	For SLX	For SLX		For SLX		
	9640:	For SLX	9640:	For SLX	9640:	9640:	9640:	9640:	For SLX	9640:	For SLX	For SLX
		9640:		9640:					9640:		9640:	9640:
	1. First		1. First		1. First	1. First	1. First	1. First		1. First		
	upgrade	1. First	upgrade	1. First	upgrade	upgrade	upgrade	upgrade	1. First	upgrade	1. First	1. First
	to	upgrade	to	upgrade	to	to	to	to	upgrade	to	upgrade	upgrade
	20.1.2h	to	20.1.2h	to	20.1.2h	20.1.2h	20.1.2h	20.1.2h	to	20.1.2h	to	to
	using	20.1.2h	using	20.1.2h	using	using	using	using	20.1.2h	using	20.1.2h	20.1.2h
	fullinstal	using	fullinstal	using	fullinstal	fullinstal	fullinstal	fullinstal	using	fullinstal	using	using
	l.	fullinstal	I.	fullinstal	I.	I.	l.	1.	fullinstal	I.	fullinstal	fullinstal
	2. Then	I.	2. Then	l.	2. Then	2. Then	2. Then	2. Then	I.	2. Then	I.	I.
	upgrade	2. Then	upgrade	2. Then	upgrade	upgrade	upgrade	upgrade	2. Then	upgrade	2. Then	2. Then
	to	upgrade	to	upgrade	to	to	to	to	upgrade	to	upgrade	upgrade
	20.2.2a/	to	20.3.1	to	20.3.2d	20.3.3	20.3.4	20.3.4a	to	20.4.1c	to	to
	b/c	targeted	version	targeted	version	version	version	version	20.4.1/a	version	20.4.2	20.4.2a
	using	20.2.3	using	20.3.2	using	using	using	using	/b	using	version	version
	fullinstal	version	fullinstal	version	fullinstal	fullinstal	fullinstal	fullinstal	version	fullinstal	using	using
	l.	using	I.	using	I.	I.	l.	I.	using	I.	fullinstal	fullinstal
		fullinstal		fullinstal					fullinstal		I.	I.
		I.		l.					I.			

То	20.2.2a/	20.2.3a	20.3.1	20.3.2/a	20.3.2c/	20.3.3	20.3.4	20.3.4a/	20.4.1/a	20.4.1c	20.4.2	20.4.2a
	b/c	to		/b	d			ac	/b			
From		20.2.3h										
20.1.1	For SLX											
	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :	9540 :
	1. First											
	upgrade											
	to											
	20.1.2h											
	using											
	fullinstal											
	I.	I.	I.	l.	l.	I.						
	2. Then											
	upgrade											
	to											
	20.2.2a/	targeted	20.3.1	targeted	20.3.2d	20.3.3	20.3.4	20.3.4a	20.4.1/a	20.4.1c	20.4.2	20.4.2a
	b/c	20.2.3	version	20.3.2	version	version	version	version	/b	version	version	version
	using	version	using	version	using	using	using	using	version	using	using	using
	fullinstal	using	fullinstal	using	fullinstal	fullinstal	fullinstal	fullinstal	using	fullinstal	fullinstal	fullinstal
	I.	fullinstal	I.	fullinstal	l.	I.	I.	I.	fullinstal	I.	I.	I.
		I.		l.					I.			
	For SLX		For SLX		For SLX	For SLX	For SLX	For SLX		For SLX		
	9640:	For SLX	9640:	For SLX	9640:	9640:	9640:	9640:	For SLX	9640:	For SLX	For SLX
		9640:		9640:					9640:		9640:	9640:
	Use		Use		Use	Use	Use	Use		Use		
	fullinstal	Use	fullinstal	Use	fullinstal	fullinstal	fullinstal	fullinstal	Use	fullinstal	Use	Use
	I.	fullinstal	I.	fullinstal	l.	I.	I.	I.	fullinstal	I.	fullinstal	fullinstal
		I.		l.					I.		l.	l.
20.1.2e,	Use fulli	Use fulli	Use									
g	nstall	nstall	fullinstal	fullinstal	fullinstal	fullinstal	fullinsta	fullinstal	fullinstal	fullinstal	fullinstal	fullinstal
			1	1	1	1	II	1	1	1	1	1
20.2.1a	Use the	Use the	Use									
	normal	normal	fullinstal	fullinsta	fullinstal							
	Firmwar	Firmwar	1	II	1	1	1	1	1	1	1	

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/ ac	20.4.1/a /b	20.4.1c	20.4.2	20.4.2a
	e Downlo ad / coldbo ot	e Downlo ad / coldbo ot										
20.2.2x	NA	Use the normal Firmwar e Downlo ad / coldbo ot	Use fullinstal I	Use fullinstal I	Use fullinsta II	Use fullinstal I						
20.2.3x	Use the normal Firmwar e Downlo ad / coldbo ot	NA	Use fullinstal I	Use fullinstal I	Use fullinstal I	Use fullinstal I	Use fullinstal I	Use fullinstal I	Use fullinstal I	Use fullinstal I	Use fullinstal I	Use fullinstal I
20.3.1	Use fulli nstall	Use fulli nstall	NA	Use the normal Firmwar e Downlo ad / coldbo ot	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use

То	20.2.2a/	20.2.3a	20.3.1	20.3.2/a	20.3.2c/	20.3.3	20.3.4	20.3.4a/	20.4.1/a	20.4.1c	20.4.2	20.4.2a
From	b/c	to 20.2.3h		/b	d			ac	/b			
From		20.2.311			fullinstal	 fullinstal	 fullinstal	 fullinstal	fullinstal	 fullinstal	 fullinstal	fullinstal
					I						I	
20.3.2/a /b	Use fulli nstall	Use fulli nstall	Use the normal Firmwar e Downlo ad / coldbo	Use the normal Firmwar e Downlo ad / coldbo	Use the normal Firmwar e Downlo ad / coldbo	Use the normal Firmwar e Downlo ad / coldbo	Use the normal Firmwar e Downlo ad / coldbo	Use the normal Firmwar e Downlo ad / coldbo	Use the normal Firmwar e Downlo ad / coldbo	Use the normal Firmwar e Downlo ad / coldbo	Use the normal Firmwar e Downlo ad / coldbo	Use the normal Firmwar e Downlo ad / coldbo
			ot	ot	ot. For downgr ade use fullinstal I.	ot. For downgr ade use fullinstal	ot. For downgr ade use fullinstal	ot. For downgr ade use fullinstal I.	ot. For downgr ade use fullinstal l.	ot. For downgr ade use fullinstal	ot. For downgr ade use fullinstal I.	ot. For downgr ade use fullinstal I.
20.3.2c/ d	Use fulli nstall	Use fulli nstall	Use the normal Firmwar e Downlo ad / coldbo ot	Use the normal Firmwar e Downlo ad / coldbo ot	Use the normal Firmwar e Downlo ad / coldbo ot	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use fullinstal I.	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use fullinstal I.	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use fullinstal I.	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use fullinstal l.	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use fullinstal I.	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use fullinstal I.	Use the normal Firmwar e Downlo ad / coldbo ot. For downgr ade use fullinstal I.
20.3.3	Use fulli nstall	Use fulli nstall	Use the normal Firmwar e Downlo ad	Use the normal Firmwar e Downlo ad	Use the normal Firmwar e Downlo	NA	Use the normal Firmwar e Downlo ad	Use the normal Firmwar e Downlo ad	Use the normal Firmwar e Downlo ad	Use the normal Firmwar e Downlo ad	Use the normal Firmwar e Downlo ad	Use the normal Firmwar e Downlo ad

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/ ac	20.4.1/a /b	20.4.1c	20.4.2	20.4.2a
			/ coldbo	/ coldbo	/ coldbo		/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo
			ot	ot	ot		ot	ot	ot	ot	ot	ot
20.3.4	Use	Use	Use the	Use the	Use the	Use the	NA	Use the	Use the	Use the	Use the	Use the
	fullinstal	fullinstal	normal	normal	normal	normal		normal	normal	normal	normal	normal
	1	1	Firmwar	Firmwar	Firmwar	Firmwar		Firmwar	Firmwar	Firmwar	Firmwar	Firmwar
			е	е	е	е		е	е	е	е	е
			Downlo	Downlo	Downlo	Downlo		Downlo	Downlo	Downlo	Downlo	Downlo
			ad	ad	ad	ad		ad	ad	ad	ad	ad
			/ coldbo	/ coldbo	/ coldbo	/ coldbo		/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo
			ot	ot	ot	ot		ot	ot	ot	ot	ot
20.3.4a/	Use	Use fulli	Use the	Use the	Use the	Use the	Use the	Use the	Use the	Use the	Use the	Use the
ac	fullinstal	nstall	normal	normal	normal	normal	normal	normal	normal	normal	normal	normal
	1		Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar
			е	е	е	е	е	е	е	е	е	е
			Downlo	Downlo	Downlo	Downlo	Downlo	Downlo	Downlo	Downlo	Downlo	Downlo
			ad	ad	ad	ad	ad	ad	ad	ad	ad	ad
			/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo
			ot	ot	ot	ot	ot	ot	ot	ot	ot	ot
20.4.1/a	Use	Use fulli	Use the	Use the	Use the	Use the	Use the	Use the	Use the	Use the	Use the	Use the
/b	fullinstal	nstall	normal	normal	normal	normal	normal	normal	normal	normal	normal	normal
	1		Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar
			е	е	е	е	е	е	е	е	е	е
			Downlo	Downlo	Downlo	Downlo	Downlo	Downlo	Downlo	Downlo	Downlo	Downlo
			ad	ad	ad	ad	ad	ad	ad	ad	ad	ad
			/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo	/ coldbo
			ot	ot	ot	ot	ot	ot	ot	ot	ot	ot
20.4.1c	Use	Use	Use the	Use the	Use the	Use the	Use the	Use the	Use the	NA	Use the	Use the
	fullinstal	fullinstal	normal	normal	normal	normal	normal	normal	normal		normal	normal
	I	I	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar	Firmwar		Firmwar	Firmwar
			е	е	е	е	е	е	е		е	е
			Downlo	Downlo	Downlo	Downlo	Downlo	Downlo	Downlo		Downlo	Downlo
			ad	ad	ad	ad	ad	ad	ad		ad	ad

То	20.2.2a/	20.2.3a	20.3.1	20.3.2/a	20.3.2c/	20.3.3	20.3.4	20.3.4a/	20.4.1/a	20.4.1c	20.4.2	20.4.2a
	b/c	to		/b	d			ac	/b			
From		20.2.3h										
			/ coldbo		/ coldbo	/ coldbo						
			ot		ot	ot						
20.4.2	Use	Use	Use the	NA	Use the							
	fullinstal	fullinstal	normal		normal							
	1	1	Firmwar		Firmwar							
			е	е	е	е	е	е	е	е		е
			Downlo		Downlo							
			ad		ad							
			/ coldbo		/ coldbo							
			ot		ot							
20.4.2a	Use	Use	Use the	NA								
	fullinstal	fullinstal	normal									
	1	1	Firmwar									
			е	е	е	е	е	е	е	е	е	
			Downlo									
			ad									
			/ coldbo									
			ot									

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

To From	20.2.2x	20.2.3x	20.3.1	20.3.2/a/ b	20.3.2c/ d	20.3.3	20.3.4	20.3.4a/ ac	20.4.1/a/ b/c	20.4.2	20.4.2a
20.1.1	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use fullinstall								
20.1.2x	Use the normal firmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use fullinstall								
20.2.1x	Use the normal firmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use fullinstall								
20.2.2x	Use the normal firmware downloa d / coldboo t*	Use the normal fi rmware downloa d / coldboo t	Use fullinstall								

To From	20.2.2x	20.2.3x	20.3.1	20.3.2/a/ b	20.3.2c/ d	20.3.3	20.3.4	20.3.4a/ ac	20.4.1/a/ b/c	20.4.2	20.4.2a
20.2.3x	Use the normal fi rmware downloa d / coldboo t	NA	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.3.1	Use fullinstall	Use fullinstall	NA	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t
20.3.2/a/ b	Use fullinstall	Use fullinstall	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t
20.3.2c/ d	Use fullinstall	Use fullinstall	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t

To From	20.2.2x	20.2.3x	20.3.1	20.3.2/a/ b	20.3.2c/ d	20.3.3	20.3.4	20.3.4a/ ac	20.4.1/a/ b/c	20.4.2	20.4.2a
20.3.3	Use fullinstall	Use fullinstall	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	NA	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t
20.3.4	Use fullinstall	Use fullinstall	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	NA	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t
20.3.4a/ ac	Use fullinstall	Use fullinstall	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t			
20.4.1/a/ b/c	Use fullinstall	Use fullinstall	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t	Use the normal fi rmware downloa d / coldboo t

То	20.2.2x	20.2.3x	20.3.1	20.3.2/a/	20.3.2c/	20.3.3	20.3.4	20.3.4a/	20.4.1/a/	20.4.2	20.4.2a
				b	d			ac	b/c		
From											
20.4.2	Use	Use	Use the	NA	Use the						
	fullinstall	fullinstall	normal fi		normal fi						
			rmware		rmware						
			downloa		downloa						
			d	d	d	d	d	d	d		d
			/ coldboo		/ coldboo						
			t	t	t	t	t	t	t		t
20.4.2a	Use	Use	Use the	NA							
	fullinstall	fullinstall	normal fi								
			rmware								
			downloa								
			d	d	d	d	d	d	d	d	
			/ coldboo								
			t	t	t	t	t	t	t	t	

^{*}within the patches

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То	20.3.3	20.3.4	20.3.4a/ac	20.4.1/a	20.4.1b	20.4.1c	20.4.2	20.4.2a
From								
20.3.3	NA	Use the						
		normal						
		Firmware						
		Download /	Download					
		coldboot	coldboot	coldboot	coldboot	coldboot	coldboot	/ coldboot
20.3.4	Use the	NA	Use the					
	normal		normal	normal	normal	normal	normal	normal
	Firmware		Firmware	Firmware	Firmware	Firmware	Firmware	Firmware
	Download /		Download /	Download				
	coldboot		coldboot	coldboot	coldboot	coldboot	coldboot	/ coldboot
20.3.4a/ac	Use the	Use the	NA	Use the				
	normal	normal		normal	normal	normal	normal	normal
	Firmware	Firmware		Firmware	Firmware	Firmware	Firmware	Firmware
	Download /	Download /		Download /	Download /	Download /	Download /	Download
	coldboot	coldboot		coldboot	coldboot	coldboot	coldboot	/ coldboot
20.4.1/a	Use the	Use the	Use the	NA	Use the	Use the	Use the	Use the
	normal	normal	normal		normal	normal	normal	normal
	Firmware	Firmware	Firmware		Firmware	Firmware	Firmware	Firmware
	Download /	Download /	Download /		Download /	Download /	Download /	Download
	coldboot	coldboot	coldboot		coldboot	coldboot	coldboot	/ coldboot
20.4.1b	Use the	Use the	Use the	Use the	NA	Use the	Use the	Use the
	normal	normal	normal	normal		normal	normal	normal
	Firmware	Firmware	Firmware	Firmware		Firmware	Firmware	Firmware
	Download /	Download /	Download /	Download /		Download /	Download /	Download
	coldboot	coldboot	coldboot	coldboot		coldboot	coldboot	/ coldboot
20.4.1c	Use the	NA	Use the	Use the				
	normal	normal	normal	normal	normal		normal	normal
	Firmware	Firmware	Firmware	Firmware	Firmware		Firmware	Firmware
	Download /		Download /	Download				
	coldboot	coldboot	coldboot	coldboot	coldboot		coldboot	/ coldboot

20.4.2	Use the	NA	Use the					
	normal	normal	normal	normal	normal	normal		normal
	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware		Firmware
	Download /		Download					
	coldboot	coldboot	coldboot	coldboot	coldboot	coldboot		/ coldboot
20.4.2a	Use the	NA						
	normal							
	Firmware							
	Download /							
	coldboot							

Upgrade and Downgrade considerations for Threshold Monitor configuration:

Downgrade Considerations:

- 1. If configured value for Cpu "limit" exceeds valid range in older release [0-80] then downgrade will be blocked with error. User can reconfigure Cpu "limit" in the range [0-80] and downgrade.
- 2. If configured value for Memory "high-limit" exceeds valid range in older release [0-80] or if it is less than the default value of "limit" in older release [60], then downgrade will be blocked with error. User can reconfigure Memory "high-limit" in the range [60-80] and downgrade.
- 3. If the startup file has "actions" configured as "snmp" or "all", then config replay process triggered in firmware full-install downgrade, will lead all the corresponding threshold-monitor CLI parameters, such as poll, retry, to reset to respective default values.

Upgrade Considerations:

1. If the startup file has "Memory limit and /or low-limit" configured, then config replay process triggered in firmware full-install downgrade, will lead all the corresponding threshold-monitor CLI parameters, such as poll, retry, to reset to respective default values.

SLX TPVM Support Matrix

SLX Build	SLX 9150	SLX 9250	Extreme 8520	Extreme 8720
20.4.2a	TPVM 4.1.1 and later	TPVM 4.1.1 and later	TPVM 4.4.0 and later	TPVM 4.2.2 and later

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, 4.5.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, 20.3.4x, 20.4.x

- 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, do the following:
 - Upgrade to SLX-OS 20.3.x, 20.2.3/x, 20.4.x while the existing TPVM installation continues to run
 - o Remove the 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.
 - 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.
 - o 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.
- To perform patch upgrade from TPVM 4.5.x to latest, do the following:

- Upgrade to SLX-OS 20.4.x while the existing TPVM 4.5.x installation continues to run
- Copy the new tpvm_inc_upg-4.5.X-X.amd64.deb to /tftpboot/SWBD2900 directory on the SLX device.
- o Install latest TPVM 4.5.x using **tpvm upgrade incremental** command

Notes:

- TPVM 4.5.4 can be incrementally upgraded from TPVM 4.1.1 and beyond.
- TPVM 4.5.4 supports full install upgrade/downgrade from TPVM 4.2.5.

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, it is recommended and as a best practice to make a backup and then delete the old disks. Use the tpvm disk remove name <disk name> command to remove the disk, 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 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 a backup of EFA installation."

Notes:

Security updates are added to the TPVM image and also to the separate Debian file used for incremental TPVM update. Main TPVM image size is $^{\sim}2.6$ GB and the TPVM incremental update Debian file size is $^{\sim}0.5$ GB. These TPVM packages contain Ubuntu security patches available up to August 30, 2022 in TPVM 4.5.4. You must have at least 1GB of free space on the switch before proceeding with the tpvm upgrade incremental command

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, 20.4.x

- 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 you plan to delete disk vdb (i.e. the 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 the new mode does not support new disk creation. The **tpvm disk add** command can be used.
- 4. As simple example for new mode of deploying TPVM:
 - a. Copy new TPVM debian Image under /tftpboot/SWBD2900. Only one file should be there and no subfolder should be present/created within this folder.
 - 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.

```
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
```

5. Note:

- a. Now, say, if the **tpvm config hostname xyz** command is used. It will still work and apply on TPVM instance. But this configuration shall not be persisted in SLX Database and will become inconsistent. Same is true for any other configuration done in old way.
- b. As in above example, password, management configuration should always be set before deploy. If required later, refer User Guide and use tpvm stop, start for such update/maintenance reason.
- c. If **tpvm unstall force** command is used, then you will need to perform a **no deploy** and **deploy** in the new mode.

For more information on configuring TPVM Configuration Persistence, refer the 'Management Configuration Guide' for this version.

TPVM Migration

Upgrading the SLXOS to 20.3.2x, 20.3.3, 20.3.4x, 20.4.x results in the creation of TPVM entries in SLX running-config implicitly (This happens when upgrading TPVM from SLXOS 20.1.2x, SLXOS 20.2.2/x, SLXOS 20.3.x to SLXOS 20.3.2x, 20.3.3, 20.3.4x)

Consider the following when upgrading TPVM from SLXOS 20.1.2x, SLXOS 20.2.2/x, SLXOS 20.3.x to SLXOS 20.3.2x, 20.3.4x, 20.4.x

- 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 towm"
- e. For TPVM upgrade to the latest version use command "tpvm upgrade ... "
- f. For TPVM upgrade incremental to the latest patch use command "tpvm upgrade incremental ..."

Limitations and Restrictions

Copy flash to startup and reload with TPVM

setNTPServer and setLDAPServer statuses are reported as failed in the output of the show tpvm status-history. After reload, TPVM is expected to be running when the above configurations are reapplied. 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.

You need to have minimum 1GB free space on TPVM when you try to perform the security patch upgrade using the command tpvm upgrade incremental ...

TPVM upgrade incremental command and file support is available only from 4.5 if we try to perform the incremental upgrade from 4.4.0 to latest, the upgrade fails and ask to perform the tpvm upgrade.

TPVM upgrade incremental command will not be supported when you try TPVM deploy in config mode and TPVM upgrade incremental command will not support with snapshot option.

Do not use the **tpvm upgrade incremental** command to upgrade the patches with *tpvm-4.X.X-X.amd64.deb*. Use the *tpvm_inc_upg-4.X.X-X.amd64.deb* image file to perform incremental upgrades.

Similarly, do not use the *tpvm_inc_upg-4.X.X-X.amd64.deb* image file to perform full upgrade. Do not use this file to perform **tpvm deploy** in *config mode* and *option*.

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 This is due to encrypted a possible to k was changed	
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.

Configuration	Migration State	Notes	
tpvm config Idap Not Migrated		Configuring the TPVM LDAP ca	
ca-cert		certificate	
tpvm config	Not Migrated	All trusted-peer configurations are	
trusted-peer		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.	 If 0/3 or 0/4 is 40G, you cannot configure 0/1 as 4x25G breakout. If 0/1 is 4x10G breakout, you cannot configure 0/3 as 4x25G breakout. If 0/3 is 4x10G breakout, you cannot configure 0/1 as 4x25G breakout. If 0/1 or 0/2 is 40G, you can configure 0/1 as 4x25G breakout because 0/1 and 0/2 will be removed. If 0/3 or 0/4 is 40G, you can configure 0/3 as 4x25G breakout because 0/3 and 0/4 will be removed.

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

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 does not work for VLL when BUM rate limiting is applied on interface in SLX 9740
- sflow sample traffic to CPU is rate limited. You can use the **qos cpu slot** command to change the rate.
- 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 feature is supported only on SLX 9150, SLX 9250, SLX 9740, Extreme 8720 and Extreme 8520. Other platforms are not supported.
- Resilient Hashing supports 32K flowset entries for Extreme 8720 and Extreme 8520.

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.

SNMP

- Traps related to RMON (Remote Network Monitoring), HA (High Availability), VACM (view-based Access Control Mode) are partially functional.
- Not all counters related to UDP, and TCP MIBs are supported.
- Configuring an in-band port into a Management VRF requires SNMP agent reload.

Maximum Logical Interfaces or LIFs scale

Maximum Logical Interface (LIF) (Port-VLAN/Port-Bridge Domain (BD)) associations supported on SLX 9150, SLX 9250, Extreme 8520, Extreme 8720 is 13183. Since VLAN and BD resources share the same hardware table memory space, the max scale of one has a trade-off with the scale of the other. That is, for example, the maximum Port-BD associations cannot be scaled to 13183 when the combined scale of VLAN and BDs exceeds 8096.

IPv6 Manageability support on TPVM

- The TPVM management interface can be configured with a single IPv6 address. You can configure an IPv4 address in addition to the IPv6 address. Configuring IPv4 address is optional.
- tpvm stop and tpvm start commands must be issued to configure the TPVM management interface's IPv4 and IPv6 address.

Open Defects

The following software defects are open in SLX-OS 20.4.2a as of October 2022:

Parent Defect ID:	SLXOS-68053	Issue ID:	SLXOS-68686			
Severity:	S2 - Major					
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2			
Technology Group:	Management	Technology:	SNMP - Simple			
			Network			
			Management			
			Protocol			
Symptom:	Delay in delivering SNMP traps					
Condition:	With SNMPv3 informs configuration					

Parent Defect ID:	SLXOS-68101	Issue ID:	SLXOS-68687				
Severity:	S2 - Major						
Product:	SLX-OS	SLX-OS Reported in Release: SLXOS 20.4.2					
Technology Group:	Layer 3	Technology:	Multi-VRF				
	Routing/Network						
	Layer						
Symptom:	During VRF delete, user notices brindge-domain VE number being displayed incorrectly as "Ve 0" in NSM raslogs as shown below: <date>, [NSM-1003], 109517, DCE, INFO, BL-1, interface Ve 0 is link down. <date>, [NSM-1001], 109518, DCE, INFO, BL-1, interface Ve 8150 is online. This is cosmetic display error, and no impact to VE functionality.</date></date>						
Condition:	During VE down, brind	en all bounded VE interfa ge-domain VE number w NSM raslogs. This issue	rill be displayed				

Parent Defect ID:	SLXOS-68166	Issue ID:	SLXOS-68688			
Severity:	S2 - Major					
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2			
Technology Group:	Management	Technology:	SNMP - Simple			
			Network			
			Management			
			Protocol			
Symptom:	After changing any SNN	MP configuration, snmpv	valk of Entity MIB, HA			
	MIB and SW MIB may s	sometimes result in "No	Such Instance".			
Condition:	After changing any SNN	ЛР configuration, snmpv	valk of Entity MIB, HA			
	MIB and SW MIB may sometimes result in "No Such Instance".					
Recovery:	Restart SNMP agent. This can be achieved by shut/noshut of SNMP					
	service on any VRF.					

SLX(config)# snmp-server use-vrf mgmt-vrf shut
SLX(config)# no snmp-server use-vrf mgmt-vrf shut

Parent Defect ID:	SLXOS-68275	Issue ID:	SLXOS-68691
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	Increase in convergence time for 8K BFD scale		
Condition:	When interface is shutdown, or member port made DOWN with the		
	scaled configuration af	ter PIC is enabled.	

Parent Defect ID:	SLXOS-68416	Issue ID:	SLXOS-68693	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	Increase in NHID count for the 8K BFD scaled configuration			
Condition:	PIC is enabled/disabled	PIC is enabled/disabled and SLX device is rebooted		

Parent Defect ID:	SLXOS-68429	Issue ID:	SLXOS-68694	
Severity:	S3 - Moderate	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2	
Technology Group:	Layer 3	Technology:	BFD - BiDirectional	
	Routing/Network		Forwarding	
	Layer		Detection	
Symptom:	Console message maybe seen - [RTM-1033], 65963, DCE, ERROR, BL-			
	1, System Next-Hop limits exceeded. Current Profile Nexthop 2000.			
	Configured Next-Hops 1003			
Condition:	When Clear bfd neighb	ors command is issued.		

Parent Defect ID:	SLXOS-68450	Issue ID:	SLXOS-68695
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Layer 3 Routing/Network Layer	Technology:	Other
Symptom:	Traffic takes more than 900 msec in the N-S direction when a port channel between the Gateway and Border Leaf fails.		

Condition:	Minimum link is configured over this port channel and the trigger is		
	the shutdown of one interface belonging to the port channel.		

Parent Defect ID:	SLXOS-68283	Issue ID:	SLXOS-68710
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3j
Technology Group:	Management	Technology:	CLI - Command Line
			Interface
Symptom:	SLX reloaded Unexpectedly.		
Condition:	The 'Dcmd' process memory size keeps increasing every time when		
	we perform 'copy running-config to startup-config" on SLX device.		

Parent Defect ID:	SLXOS-67618	Issue ID:	SLXOS-68725
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2d
Technology Group:	Management	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	The OID to pull the serial number is different for the 8720 than other		
	SLX platforms.		
Condition:	If 8720 tries to fetch the serial num via entphysicalentry.		

Parent Defect ID:	SLXOS-68282	Issue ID:	SLXOS-68736
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	BFD session flaps for 20 minutes		
Condition:	Link break between spine and BL nodes		

Parent Defect ID:	SLXOS-68749	Issue ID:	SLXOS-68753	
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 500msec upon spine node reboot.			
Condition:	Upon spine reboot, few BFD sessions from compute nodes to border-			
	leaf flap and traffic loss	leaf flap and traffic loss greater than 500msec is observed.		

Parent Defect ID:	SLXOS-67385	Issue ID:	SLXOS-68878
Severity:	S2 - Major		

Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00ch
Technology Group:	MPLS	Technology:	MPLS VPLS - Virtual
			Private LAN Services
Symptom:	Pseudowires flaps		
Condition:	After a link-down event.		

Parent Defect ID:	SLXOS-68530	Issue ID:	SLXOS-68891	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1b	
Technology Group:	Layer 3	Technology:	ARP - Address	
	Routing/Network		Resolution Protocol	
	Layer			
Symptom:	When user configures	a VE with "0000.5e00.01	01" MAC as static	
	anycast-gateway-mac	anycast-gateway-mac on 9740 platforms, it does not learn ARP		
	entries for connected devices.			
Condition:	When user configures a VE with VRRP MAC as static anycast-gateway-			
	mac on 9740 platforms, it does not learn ARP entries for connected			
	devices.			
	Dedicated VRRP IPv4 mac addresses: 0000.5e00.01xx (xx – vrid)			
	Dedicated VRRP IPv6 mac addresses: 0000.5e00.02xx			
Workaround:	Any other MAC except the dedicated VRRP MACs are allowed to be			
	used as static anycast-gateway macs on 9740 platforms.			
Recovery:	No known recovery me	ethods.		

Parent Defect ID:	SLXOS-66842	Issue ID:	SLXOS-68900
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4a
Technology Group:	Security	Technology:	SSH - Secure Shell
Symptom:	Public key authentication wont work some times.		
Condition:	Running "ssh" exec mode command.		
Recovery:			

Parent Defect ID:	SLXOS-67415	Issue ID:	SLXOS-68905	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1	
Technology Group:	Management	Technology:	SNMP - Simple	
			Network	
			Management	
			Protocol	
Symptom:	snmpwalk for OID .1.3.6.1.4.1.1916.1.51.1.8.1.3			
	(extremeBgp4V2PrefixInPrefixes) doesn't work			
Condition:	when snmpwalk execu	when snmpwalk executed for OID .1.3.6.1.4.1.1916.1.51.1.8.1.3		

Parent Defect ID:	SLXOS-68731	Issue ID:	SLXOS-68910

Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00m
Technology Group:	Security	Technology:	AAA - Authentication,
			Authorization, and
			Accounting
Symptom:	Disabling AAA accounting does not appear in accounting log.		
Condition:	Disabling AAA accounting.		

Parent Defect ID:	SLXOS-66359	Issue ID:	SLXOS-68915
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4ab
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	Bfd session does not come up due to SDK error		
Condition:	Fabric re-configuration or ecfe-speaker pod restart		

Parent Defect ID:	SLXOS-66943	Issue ID:	SLXOS-69042	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00j	
Technology Group:	MPLS	Technology:	LDP - Label	
			Distribution Protocol	
Symptom:	SLX ignores the LDP MAC withdrawal from juniper.			
Condition:	SLX ignores the LDP MAC withdrawal from juniper when juniper sets			
	the IP address as 0.0.0.	the IP address as 0.0.0.0.		

Parent Defect ID:	SLXOS-67923	Issue ID:	SLXOS-69097
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00j
Technology Group:	Management	Technology:	Other
Symptom:	REST interface does not support configuring "vlan any" for mac		
	access-list.		
Condition:	If "vlan any" is specified for mac access-list in REST configuration API		
Workaround:	Use CLI to configure "v	lan any" for "mac access	-list"

Parent Defect ID:	SLXOS-69029	Issue ID:	SLXOS-69114	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1	
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis	
			Trunking	
Symptom:	Traffic may take >500ms to converge in non-clos fabric.			
Condition:	Check convergence time for traffic from South to North during leaf			
	node reload.			

Parent Defect ID:	SLXOS-57372	Issue ID:	SLXOS-69121
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3b
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Convergence times >50	00 msec are seen for Sou	ıth - North traffic when
	one of the two ports from Border Leaf to L3 gateway is shut.		
Condition:	This is a test for convergence numbers. There are two port channels		
	between each Border Leaf to the two L3 gateways. One of the port		
	channel is shut down at the Border Leaf. This forces the BL to		
	reprogram the traffic going over that port channel for the South -		
	North traffic to the other port channel. The convergence times vary		
	and there are occasion	al spikes of over 700 ms	ec.

Parent Defect ID:	SLXOS-68350	Issue ID:	SLXOS-69206
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2f
Technology Group:	Management	Technology:	CLI - Command Line
			Interface
Symptom:	May experience reload on Dcmd module.		
Condition:	Make Script to run periodically to collect 'show running nomore'		
	output.		

Parent Defect ID:	SLXOS-68589	Issue ID:	SLXOS-69211
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00m
Technology Group:	Security	Technology:	RADIUS
Symptom:	CLI password string not masked on RADIUS accounting request and		
	audit.log.		
Condition:	On executing authentication based CLI commands.		

Parent Defect ID:	SLXOS-67752	Issue ID:	SLXOS-69259
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Other	Technology:	Other
Symptom:	Reload is taking more time when hostname contains the . (dot)		
	character.		
Condition:	When host name contains the dot character and reload the device		
Workaround:	Configure hostname without a dot		
Recovery:	system will recover with delayed time or configure hostname without		
	dot		

Parent Defect ID:	SLXOS-68497	Issue ID:	SLXOS-69337
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Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Other	Technology:	Other
Symptom:	The link does not come up when the QSFP-SFPP-ADPT and 10G SR		
	SFP+ is used in 8520-48XT ports 49,54.		
Condition:	When the optic+adapter combination QSFP-SFPP-ADPT and 10G SR		
	SFP+ is used		

Parent Defect ID:	SLXOS-69102	Issue ID:	SLXOS-69365
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2f
Technology Group:	Management	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	When trying to create a port configuration map using ifIndex as the		
	key value, It is not possible to make a port configuration map because		
	the key value(ifIndex) of the management port is not supported.		
Condition:	on SLX 9250 in 20.4.2a, issue is seen only after reloading, after		
	reloading if SNMP walk	is issued for IfIndex and	later SNMP walk is
	issued for the IP Addre	ss table issue is not seen	

Parent Defect ID:	SLXOS-68225	Issue ID:	SLXOS-69392
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00c
Technology Group:	Management	Technology:	CLI - Command Line
			Interface
Symptom:	Unexpected reload of the SLX device.		
Condition:	When we perform the CLI cmd "show bridge-domain" with presence		
	of description has the special characters (Ex: <,>).		

Parent Defect ID:	SLXOS-69413	Issue ID:	SLXOS-69413
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Management	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	Link up/down interfaces are not generated for insight interface.		
Condition:	None.	None.	

The following software defects are open in SLX-OS 20.4.2 as of September 2022:

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 stat bridge-domain x"		

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	When Storm control is applied on Virtual leased lines interface	

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

Parent Defect ID:	SLXOS-55266	Issue ID:	SLXOS-55266
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
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	the incoming IP packets are Priority Tagged (Vlan-0 with PCP bit set).	

Condition:	The connected device to the switch is configured to send Priority
	tagged packets on an untagged port. The source MACs are not learnt
	from IP packets on the switch.
Workaround:	Use DSCP instead of using Priority tagging for QoS.
Recovery:	No known recovery methods available.

Parent Defect ID:	SLXOS-56576	Issue ID:	SLXOS-56576
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Other	Technology:	Other
Symptom:		e user upgrades software becomes unreachable w	
Condition:	Software upgrade thro	ugh in-band port.	

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 se and health checks	Memory increase is seen when EFA frequently polls SLX for updates	

Parent Defect ID:	SLXOS-55211	Issue ID:	SLXOS-57437
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
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	ress	

Parent Defect ID:	SLXOS-57721	Issue ID:	SLXOS-57721
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
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 IP	oMPLS traffic	

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 i	After the BGP process is killed.		

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 pro	gramming 500 flowspec	rules to hardware, a
	BFD session is down du	ie to "Detection Time Ex	pired" which in turn
	terminates BGP session	n. Some BGP sessions fla	pping are due to this.
Condition:	In scaled setup, 500 BG	P-flow spec rules are pr	ogrammed in
	hardware		

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:		assword string has "\" or in the running-config aft ed	-
Condition:	Encrypted password string should not have these charater "\" or "?"		
Workaround:	TPVM password comm password string doesn'	and needs to be executed the theorem in the '\' and '?'.	ed till the encrypted

Recovery:	TPVM password command needs to be executed again to recover
	TPVM login

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:	may cause traffic flood device is not able to de Whenever LACP port-o disaggregated and lase allow peer device to de member port will be tr Some old devices may	Inment, shutdown of an ling to other ES interface etect link flap and continuation hannel is shut, member or will be down for few metect link event. After the fansitioned to disaggregation to be able to detect link ore time till LACP timeo	is if the client/host ue to send the traffic. ports will be usec(around 100ms) to at link comes up and uted individual port. k flap and continue to
Condition:	down for short period 100msec before bring If the dual homed host shut, the host continue	ot be able to detect link for time. SLX 9150/9250 lup the link as lacp individual is not able to detect the esto send the traffic till laraffic (in vlan) during tha	keep the link down for dual. Ink flap on LACP ESI LACP timeout. SLX
Workaround:	Shutting the individual member ports along with ES port-channel avoids flooding in this scenario.		
Recovery:	This situation will be re	ecovered automatically a ACP timeout after 3sec (

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:		+ noreboot" is issued ar	
	"firmware commit" is o	done and rebooted the d	evice.

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 I	MM	

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-62671	Issue ID:	SLXOS-62995
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
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-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 through BGP and are getting processed.		

Parent Defect ID:	SLXOS-63023	Issue ID:	SLXOS-63982
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 firmware download, other than the USB.
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Parent Defect ID:	SLXOS-64409	Issue ID:	SLXOS-64606
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.	option.	

Parent Defect ID:	SLXOS-64255	Issue ID:	SLXOS-65234
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00j
Technology Group:	Management	Technology:	CLI - Command Line
			Interface
Symptom:	ARP not resolved for the peer entry		
Condition:	When link fault is cleared.		

Parent Defect ID:	SLXOS-65700	Issue ID:	SLXOS-65700
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	MPLS	Technology:	MPLS VPLS - Virtual
			Private LAN Services
Symptom:	LACP configured Port channels may flap after clearing MACs.		
Condition:	Executing "clear mac dynamic" command on a Provider Edge node		
	with more than 600 VF	with more than 600 VPLS bridge domain configuration may cause	
	LACP port channels to flap.		
Workaround:	MACs can be cleared o	ne at a time or clear MA	C by one VLAN at a
	time		

Parent Defect ID:	SLXOS-65379	Issue ID:	SLXOS-66289
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3j
Technology Group:	MPLS	Technology:	MPLS VPLS - Virtual
			Private LAN Services
Symptom:	MPLS encapsulated 'Unicast ICMP with destination MAC starts on 4'		
	traffic fails to forward from 9740(PHP/P) to 9850(PE).		

Condition:	a) Establish VPLS session between 9850 & MLX with adding 9740 as
	Transit Node.
	b) Initiate traffic with destination MAC starts with 4 from CE to CE.

Parent Defect ID:	SLXOS-66290	Issue ID:	SLXOS-66290
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Layer 3	Technology:	VRRPv2 - Virtual
	Routing/Network		Router Redundancy
	Layer		Protocol Version 2
Symptom:	SAG mac is not programmed in hardware.		
Condition:	ESI flap on port-channel interface.		

Parent Defect ID:	SLXOS-66262	Issue ID:	SLXOS-66385
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4a
Technology Group:	Layer 3	Technology:	ARP - Address
	Routing/Network		Resolution Protocol
	Layer		
Symptom:	Response is not seen for Neighbor Solicitation		
Condition:	On capturing packets using port mirroring while receiving ICMP6		
	Neighbor Solicitations at the rate of 1pkt/sec or more, a sporadic miss		
	of Neighbor Advertisements (NA) is seen in the pcap file, though SLX		
	responds with NA for e	ach of them.	

Parent Defect ID:	SLXOS-66718	Issue ID:	SLXOS-66718
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Other	Technology:	Other
Symptom:	Observed the optics removed for all ports.		
Condition:	After multiple device reloads on 9740 device.		

Parent Defect ID:	SLXOS-66738	Issue ID:	SLXOS-66738
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Monitoring	Technology:	Port Mirroring
Symptom:	In port mirroring configuration if destination interface is a port- channel and source interface is either a port-channel or member of a port-channel then destination port-channel interface goes down.		
Condition:	Issue is seen if in port mirroring configuration destination interface is configured as a port-channel.		

Parent Defect ID: SLXOS-66740 Issue ID: SLXOS-66740

Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	BFD daemon reboot may be seen.		
Condition:	Multiple times add and remove of EPGs from EFA.		

Parent Defect ID:	SLXOS-66741	Issue ID:	SLXOS-66741
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	RH entries are exhausting. Utilizing more resources		
Condition:	Enabling Maintenance mode makes RH entries exhaust and utilize		
	more resources		

Parent Defect ID:	SLXOS-66742	Issue ID:	SLXOS-66742	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1	
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis	
			Trunking	
Symptom:	BUM packets failed to go out over CCEP(cluster client endpoint) ports			
Condition:	Below is the sequence of trigger:			
	-Maintenance mode enable			
	-Vlan delete/add against CCEP Interface			
	-Disable Maintenance	-Disable Maintenance mode		

Parent Defect ID:	SLXOS-64538	Issue ID:	SLXOS-66864
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Other	Technology:	Other
Symptom:	RME port may be down		
Condition:	Redundant management ports on slx 9740 may not come up for		
	certain ports in certain scenarios		
Workaround:	Reconfigure breakout cable and sh/no shut to resolve the issue		
Recovery:	Reconfigure breakout cable and sh/no shut to resolve the issue		

Parent Defect ID:	SLXOS-66951	Issue ID:	SLXOS-66988
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Other	Technology:	Other
Symptom:	"Last Runtime error" in the "show tpvm status" after power cycle.		

Condition:	While trying to get the tpvm status before TPVM is coming to alive.	
Recovery:	After executing "show tpvm ip" with proper ip, issue will be resolved.	

Parent Defect ID:	SLXOS-66825	Issue ID:	SLXOS-67000
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2fa
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	BFD sessions flaps		
Condition:	Reload of Leaf node connected to SRIOV compute servers.		

Parent Defect ID:	SLXOS-67058	Issue ID:	SLXOS-67177
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Other	Technology:	Other
Symptom:	BGP IPV6 trap with BGP peer remote address in its varbind list.		
Condition:	During BGP IPV6 traps generation, the bgp peer remote address got		
	stored in ipAddress value type.		

Parent Defect ID:	SLXOS-67321	Issue ID:	SLXOS-67373
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Security	Technology:	SSH - Secure Shell
Symptom:	After deleting the SSH key from flash it come up again after reload.		
Condition:	After deleting the SSH key from flash it come up again after reload.		

Parent Defect ID:	SLXOS-54373	Issue ID:	SLXOS-67650
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1
Technology Group:	Management	Technology:	CLI - Command Line
			Interface
Symptom:	Interface MTU value not set		
Condition:	Sometimes a reload will not set MTU value		
Workaround:	Re-configure MTU value		

Parent Defect ID:	SLXOS-67049	Issue ID:	SLXOS-67663
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4a
Technology Group:	Monitoring	Technology:	Hardware Monitoring
Symptom:	Flow based mirroring stopped working		
Condition:	On SLX-9150/9250 Platform port channel is configured as destination		
	interface in monitor se	interface in monitor session in flow based mirroring.	

Workaround:	Rebind ACL on the Source interface configured in flow based monitor
	session

Parent Defect ID:	SLXOS-66416	Issue ID:	SLXOS-67705
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2e
Technology Group:	Security	Technology:	User Accounts &
	Passwords		
Symptom:	Unable to login to the device on SLX9740.		
Condition:	When following the password recovery method.		

Parent Defect ID:	SLXOS-66994	Issue ID:	SLXOS-67853
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2fa
Technology Group:	Monitoring	Technology:	Port Mirroring
Symptom:	For mirrored traffic ICMP reply packets are seen before ICM request packets.		
Condition:	When a PO is used as source interface for mirroring.		

Parent Defect ID:	SLXOS-67492	Issue ID:	SLXOS-67928
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1a
Technology Group:	Management	Technology:	Other
Symptom:	Failed to bring up the interfaces(0/49:1 & 0/54:1) on SLX9150-48XT.		
Condition:	With presence of QSFP-SFPP-ADPT and 10G SR SFP+ optics on 0/49 or		
	0/54.		

Parent Defect ID:	SLXOS-67965	Issue ID:	SLXOS-67965
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Monitoring	Technology:	RAS - Reliability,
			Availability, and
			Serviceability
Symptom:	Dcmd core file will be generated and system will boot up.		
Condition:	When support save is started if there is a network connectivity issue		
	and file transfer takes a	a very long time.	

Parent Defect ID:	SLXOS-67837	Issue ID:	SLXOS-68001
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2fb
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		

Symptom:	In routing table, POD prefixes with /25 routes are not added instead
	the route which has next-hop points to gateway is added.
Condition:	During POD reboot the routes are installed with gateway's next-hop address.

Parent Defect ID:	SLXOS-68053	Issue ID:	SLXOS-68053
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Management	Technology:	SNMP - Simple
			Network
	Management		
			Protocol
Symptom:	Delay in delivering SNMP traps		
Condition:	With SNMPv3 informs configuration		

Parent Defect ID:	SLXOS-67941	Issue ID:	SLXOS-68061
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4b
Technology Group:	Monitoring	Technology:	Hardware Monitoring
Symptom:	SLXCLI route command "show hw route-info linecard 0" will show		
	invalid values in the LP	M output display.	
Condition:	When route command "show hw route-info linecard 0" is executed		
	from SLXCLI.		

Parent Defect ID:	SLXOS-68101	Issue ID:	SLXOS-68101
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Layer 3	Technology:	Multi-VRF
	Routing/Network		
	Layer		
Symptom:	During VRF delete, user notices brindge-domain VE number being displayed incorrectly as "Ve 0" in NSM raslogs as shown below: <date>, [NSM-1003], 109517, DCE, INFO, BL-1, interface Ve 0 is link down. <date>, [NSM-1001], 109518, DCE, INFO, BL-1, interface Ve 8150 is online. This is cosmetic display error, and no impact to VE functionality.</date></date>		
Condition:	During VRF delete, when all bounded VE interfaces goes for reset. During VE down, brindge-domain VE number will be displayed incorrectly as "Ve 0" in NSM raslogs. This issue is not observed for Vlan VEs.		

Parent Defect ID:	SLXOS-68166	Issue ID:	SLXOS-68166
Severity:	S2 - Major		

Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Management	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	After changing any SNN	MP configuration, snmpv	valk of Entity MIB, HA
	MIB and SW MIB may s	sometimes result in "No	Such Instance".
Condition:	After changing any SNN	MP configuration, snmpv	valk of Entity MIB, HA
	MIB and SW MIB may s	sometimes result in "No	Such Instance".
Recovery:	Restart SNMP agent. This can be achieved by shut/noshut of SNMP		
	service on any VRF.		
	SLX(config)# snmp-server use-vrf mgmt-vrf shut		
	SLX(config)# no snmp-s	server use-vrf mgmt-vrf s	shut

Parent Defect ID:	SLXOS-66943	Issue ID:	SLXOS-68200
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00j
Technology Group:	MPLS	Technology:	LDP - Label
			Distribution Protocol
Symptom:	SLX ignores the LDP MAC withdrawal from juniper.		
Condition:	SLX ignores the LDP MAC withdrawal from juniper when juniper sets		
	the IP address as 0.0.0.	0.	

Parent Defect ID:	SLXOS-67899	Issue ID:	SLXOS-68239
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2fb
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Route entries with 2 next-hops are added where one next-hop is		
	inactive.		
Condition:	During the POD reboot scenario, PODs advertise different next-hop		
	address. Though one of the next-hop is detected as BFD DOWN, route		
	with this next-hop still present in routing table.		
Recovery:	Execute "clear ip route	<route>"</route>	

Parent Defect ID:	SLXOS-67978	Issue ID:	SLXOS-68324
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3ab

Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	Reload is seen in Fibagt module.		
Condition:	1 million BGP routes are advertised and withdrawn in a loop with a		
	gap of 5 seconds in between.		

Parent Defect ID:	SLXOS-67850	Issue ID:	SLXOS-68337	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2ae	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	BGP learnt best route is getting withdrawn and re-programmed once			
	new additional path route is programmed.			
Condition:	Additional Path feature	Additional Path feature is enabled for BGP.		

Parent Defect ID:	SLXOS-67973	Issue ID:	SLXOS-68392
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 is not coming up		
Condition:	AMF POD reset		

Parent Defect ID:	SLXOS-68393	Issue ID:	SLXOS-68393	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2	
Technology Group:	Layer 3	Technology:	BFD - BiDirectional	
	Routing/Network		Forwarding	
	Layer		Detection	
Symptom:	BFD session will remain in down state.			
Condition:	BFD packet is transmitted with wrong UDP checksum value.			
Recovery:	Flap the IP interface on	Flap the IP interface once over which BFD Session is created.		

Parent Defect ID:	SLXOS-68416	Issue ID:	SLXOS-68416
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Increase in NHID count for the 8K BFD scaled configuration		
Condition:	PIC is enabled/disabled and SLX device is rebooted		

Parent Defect ID:	SLXOS-68429	Issue ID:	SLXOS-68429
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	Console message maybe seen - [RTM-1033], 65963, DCE, ERROR, BL-		
	1, System Next-Hop limits exceeded. Current Profile Nexthop 2000.		
	Configured Next-Hops 1003		
Condition:	When Clear bfd neighb	ors command is issued.	

Parent Defect ID:	SLXOS-68374	Issue ID:	SLXOS-68435
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2fd
Technology Group:	Traffic Management	Technology:	Rate Limiting and
			Shaping
Symptom:	When high rate of IGMP traffic is received, device may experience		
	OSPF and BFD sessions	flaps.	
Condition:	When high rate of IGMP traffic is received with destination IP address		
	224.224.224.224.		

Parent Defect ID:	SLXOS-67423	Issue ID:	SLXOS-68447
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4ab
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	BGP reload and sessions went down		
Condition:	redeployment of VMs that causes MACs to be advertised		

Parent Defect ID:	SLXOS-68498	Issue ID:	SLXOS-68498
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Management	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	Delay in delivering traps		
Condition:	When there is flood of traps observed that traps are delivered slowly		

Parent Defect ID:	SLXOS-68190	Issue ID:	SLXOS-68561
Severity:	S3 - Moderate		

Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2fd
Technology Group:	IP Multicast	Technology:	MLD - Multicast
			Listener Discovery
Symptom:	Reload is observed in MLD module, followed by node reload and link		
	flaps.		
Condition:	The node receives MLD traffic from peer (with a large length value),		
	on an L3 interface with no multicast configuration.		

Defects Closed with Code Changes

The following software defects were closed in 20.4.2a with code change as of October 2022:

Parent Defect ID:	SLXOS-68498	Issue ID:	SLXOS-68696
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Management	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	Delay in delivering traps		
Condition:	When there is flood of traps observed that traps are delivered slowly		

Parent Defect ID:	SLXOS-67614	Issue ID:	SLXOS-68705
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1a
Technology Group:	Security	Technology:	PBR - Policy-Based
			Routing
Symptom:	IPv6 transit packets are getting dropped.		
Condition:	When L3 interface is configured with IPv4 and IPv6 addresses and		
	IPv4 PBR rule is applied to drop all IPv4 packets.		

Parent Defect ID:	SLXOS-56576	Issue ID:	SLXOS-68717
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
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 thro	ugh in-band port.	

Parent Defect ID:	SLXOS-67910	Issue ID:	SLXOS-68809
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Layer 3	Technology:	IPv6 Addressing
	Routing/Network		
	Layer		
Symptom:	SLX reloads, when we try to fetch the ipv6 link-local neighbors		
	information.		
Condition:	When we try to retrieve the neighbor info from the SLX-CLI.		
	"show ipv6 neighbor <l< th=""><th>ink-local address>"</th><th></th></l<>	ink-local address>"	

Parent Defect ID:	SLXOS-64538	Issue ID:	SLXOS-69094
Severity:	S2 - Major		

Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Other	Technology:	Other
Symptom:	RME port may be down		
Condition:	Redundant management ports on slx 9740 may not come up for		
	certain ports in certain scenarios		

Parent Defect ID:	SLXOS-68190	Issue ID:	SLXOS-69257
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2fd
Technology Group:	IP Multicast	Technology:	MLD - Multicast
			Listener Discovery
Symptom:	Reload is observed in MLD module, followed by node reload and link		
	flaps.		
Condition:	The node receives MLD traffic from peer (with a large length value),		
	on an L3 interface with	no multicast configurati	ion.

Parent Defect ID:	SLXOS-69386	Issue ID:	SLXOS-69386
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Management	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	SNMP GET gives wrong value for OID 1.3.6.1.2.1.31.1.1.1.17		
	(ifConnectorPresent)		
Condition:	None		

The following software defects were closed in 20.4.2 with code change as of September 2022:

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-65436	Issue ID:	SLXOS-65436
Severity:	S2 - Major		

Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	Not able to delete a logical interface.		
Condition:	When a new BD/LIF was created after LIF limit is reached.		

Parent Defect ID:	SLXOS-66708	Issue ID:	SLXOS-66708
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Other	Technology:	Other
Symptom:	observed the reload		
Condition:	when kernel panic is done on the device.		

Parent Defect ID:	SLXOS-66716	Issue ID:	SLXOS-66727	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4a	
Technology Group:	MPLS	Technology:	MPLS VPLS - Virtual	
			Private LAN Services	
Symptom:	show bridge-domain <bd#> logical-interface" displays the LIF as</bd#>			
	untagged, when it is configured as a tagged interface. This is cosmetic			
	issue.			
Condition:	This is only cosmetic bug as traffic was working as tagged.			
	When bridge-domain is configured with tagged interface, show			
	command show it as u	command show it as untagged.		

Parent Defect ID:	SLXOS-66305	Issue ID:	SLXOS-66802
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Other	Technology:	Other
Symptom:	In 9640, other unrelated 1G ports go down when one particular 1G		
	port is reseated.		
Condition:	In 9640, for example, if ports 0/13, 0/14, 0/16, 0/17 have 1G optics		
	and are UP, and when 0/13 optic is reseated, 0/14 and 0/16 also go		
	down.		

Parent Defect ID:	SLXOS-66829	Issue ID:	SLXOS-66836
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3j
Technology Group:	Layer 2 Switching	Technology:	Other
Symptom:	Switch does not allow new tag-type or TPID to be configured.		
Condition:	While trying to configure a new tag-type the node throws an error -		
	Exceeded the system max on how many different Tag Type can be		
	configured.		

Parent Defect ID:	SLXOS-66826	Issue ID:	SLXOS-66850	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2fa	
Technology Group:	Layer 3	Technology:	BFD - BiDirectional	
	Routing/Network Forwarding			
	Layer		Detection	
Symptom:	BFD session state mismatch between SLX and neighbor.			
Condition:	In SLX-9740, during BFD	In SLX-9740,during BFD sessions bringup.		

Parent Defect ID:	SLXOS-66426	Issue ID:	SLXOS-66859	
Severity:	S3 - Moderate	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4	
Technology Group:	Layer 2 Switching	Technology:	VLAN - Virtual LAN	
Symptom:	'show interface <phy po=""> switchport' output has incorrect Active VLANs after a VLAN is removed from the interface.</phy>			
Condition:	trunk native-vlan <vlan <vlan-id>', due to clear 'switchport trunk allow</vlan-id></vlan 	on to an interface in the n-id>' and 'switchport tru nup issue, even after rem red vlan remove <vlan-id phy/po> switchport' out an.</vlan-id 	unk allowed vlan add noving the vlan using >', vlan is still showing	

Parent Defect ID:	SLXOS-66893	Issue ID:	SLXOS-66940
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2fa
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	BFD Sessions enabled stays down.		
Condition:	In SLX-9250/SLX-9150/SLX-8720, BFD Sessions over CEP interface		
	enabled with "bfd-soft	ware-session".	

Parent Defect ID:	SLXOS-67323	Issue ID:	SLXOS-67333	
Severity:	S2 - Major	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1	
Technology Group:	Layer 3	Technology:	VRRPv2 - Virtual	
	Routing/Network		Router Redundancy	
	Layer		Protocol Version 2	
Symptom:	TCP packets received from a VxLAN tunnel maybe copied to CPU and			
	forwarded as duplicate packets to host.			
Condition:	When a specific TCP packet with the Acknowledgement number			
	matches with a certain pattern, the packet maybe incorrectly copied			
	to CPU and forwarded	as duplicate packet to e	nd host.	

Parent Defect ID:	SLXOS-67007	Issue ID:	SLXOS-67379
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2fa
Technology Group:	Layer 3	Technology:	ARP - Address
	Routing/Network		Resolution Protocol
	Layer		
Symptom:	Some of the BFD sessions are going down		
Condition:	SRIOV ports are connected with a Leaf pair in Active-Standby mode.		
	When the port connected to active SRIOV is shutdown, some of the		
	BFD sessions go down.		

Parent Defect ID:	SLXOS-67430	Issue ID:	SLXOS-67640
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2
Technology Group:	Traffic Management	Technology:	QoS - Quality of
			Service
Symptom:	When IGMP packets are received at high rate via VXLAN tunnel, OSPF		
	sessions may flap.		
Condition:	When IGMP packets ar	e received at high rate v	ia VXLAN tunnel.

Parent Defect ID:	SLXOS-66927	Issue ID:	SLXOS-67670
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Monitoring	Technology:	OAM - Operations,
			Admin &
			Maintenance
Symptom:	SLX 9540/9640 does not reply with DMR pkts when CFM y.1731 DMM		
	pkts are received from other devices.		
Condition:	SLX 9540/9640 does not reply with DMR response when CFM y.1731		
	DMM pkts are received	d from other devices.	

Parent Defect ID:	SLXOS-67528	Issue ID:	SLXOS-67676	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2d	
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis	
			Trunking	
Symptom:	May encounter continuous Tx Discard count increment on Ports.			
Condition:	Reported behavior spe	Reported behavior specific to MCT-ICL ports on SLX Leaf switch.		

Parent Defect ID:	SLXOS-67588	Issue ID:	SLXOS-67765
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4ab

Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	May encounter continuous Tx Discard count increment on Ports.		
Condition:	Reported behavior specific to MCT-ICL ports on SLX Leaf switch.		

Parent Defect ID:	SLXOS-67934	Issue ID:	SLXOS-67946
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1b
Technology Group:	Management	Technology:	Other
Symptom:	Upon the boot up of SLX, system persists directory file /TPVM/tpvm_disk_pool/		
Condition:	When "write erase all" issued without issuing command, "tpvm uninstall force"		

Parent Defect ID:	SLXOS-67995	Issue ID:	SLXOS-68182
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	BGP EVPN MH AD-per-EVI route incorrectly setting VNI value to 0		
	rather than global value		
Condition:	For BGP EVPN MH, when generated AD-per-EVI route contains VNI		
	field in the NLRI		

Defects Closed without Code Changes

The following software defects were closed in 20.4.2a without code changes as of October 2022.

Parent Defect ID:	SLXOS-67978	Issue ID:	SLXOS-68318
Reason Code:	Insufficient	Severity:	S3 - Moderate
	Information		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3ab
Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	Reload is seen in Fibagt module.		
Condition:	1 million BGP routes are advertised and withdrawn in a loop with a		
	gap of 5 seconds in between.		

Parent Defect ID:	SLXOS-67965	Issue ID:	SLXOS-68682
Reason Code:	Not Reproducible	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	Monitoring	Technology:	RAS - Reliability,
			Availability, and
			Serviceability
Symptom:	Dcmd core file will be generated and system will boot up.		
Condition:	When support save is started if there is a network connectivity issue		
	and file transfer takes	a very long time.	

The following software defects were closed in 20.4.2 without code changes as of September 2022.

Parent Defect ID:	SLXOS-63118	Issue ID:	SLXOS-63118
Reason Code:	Not Reproducible	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 the breakout config or reload the device.		

Parent Defect ID:	SLXOS-66291	Issue ID:	SLXOS-66291
Reason Code:	Working as Designed	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Peer group command not accepted under router bgp user vrf		
Condition:	While trying to add peer group for BGP under user vrf.		

Parent Defect ID:	SLXOS-66494	Issue ID:	SLXOS-66494
Reason Code:	Not a Software	Severity:	S1 - Critical
	Defect		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Other	Technology:	Other
Symptom:	With FEC mode RS-FEC/FC-FEC configuration, the link is not coming		
	up.		
Condition:	When configuring the "no shutdown" on the port, with FEC mode as		
	RS-FEC /FC-FEC.		

Parent Defect ID:	SLXOS-66686	Issue ID:	SLXOS-66686
Reason Code:	Already Implemented	Severity:	S3 - Moderate
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Other	Technology:	Other
Symptom:	"show efa status" is not getting the status from EFA and throwing the		
	error		
Condition:	While doing multiple EFA upgrade without "no efa deploy", "show efa		
	status" is not getting the status from EFA		
Workaround:	Execute "no efa deploy" before doing the "efa deploy" on the node		
	with already EFA deployed.		

Parent Defect ID:	SLXOS-67955	Issue ID:	SLXOS-67955
Reason Code:	Question Answered	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.2
Technology Group:	MPLS	Technology:	MPLS Traffic
			Engineering
Symptom:	LSP is not coming up between MLX and SLX devices.		
Condition:	SLX MPLS TE is not able to find link between MLX and SLX. Also seeing		
	the delay on hello packets.		