

# Extreme SLX-OS 20.4.1b

# 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 20.4.1b	June 2022
2.0	Added restrictions for Resilient Hashing in the 'Others' section of 'Limitations and Restrictions'	November 2022

## Preface

# Getting Help

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

- <u>Extreme Portal:</u> Search the GTAC (Global Technical Assistance Center) knowledge base; manage support cases and service contracts; download software; and obtain product licensing, training and certifications.
- <u>The Hub:</u> A forum for Extreme Networks customers to connect with one another, answer questions, and share ideas and feedback. This community is monitored by Extreme Networks employees but is not intended to replace specific guidance from GTAC.
- <u>Call GTAC:</u> For immediate support, call (800) 998 2408 (toll-free in U.S. and Canada) or 1 (408) 579 2826. For the support phone number in your country, visit www.extremenetworks.com/support/contact.

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

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

#### Subscribe to Service Notifications

You can subscribe to email notifications for product and software release announcements, Vulnerability Notices, and Service Notifications.

- 1. Go to <a href="https://www.extremenetworks.com/support/service-notification-form.">www.extremenetworks.com/support/service-notification-form.</a>
- 2. Complete the form. All fields are required.
- 3. Select the products for which you want to receive notifications.
  - **Note**: You can change your product selections or unsubscribe at any time.
- 4. Select Submit.

#### Extreme Resources

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

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

### Document Feedback

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

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

You can provide feedback in the following ways:

- In a web browser, select the feedback icon and complete the online feedback form.
- Access the feedback form at <a href="http://www.extremenetworks.com/documentation-feedback-pdf/">http://www.extremenetworks.com/documentation-feedback-pdf/</a>.
- Email us at <a href="mailto:documentation@extremenetworks.com">documentation@extremenetworks.com</a>.

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

# Release Overview

Release SLX-OS 20.4.1b 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 20.4.1b

- 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 20.4.1b 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	<ul> <li>tpvm upgrade incremental command is introduced.</li> <li>avoids reinstallation of TPVM and EFA during upgrade</li> <li>2 Debian files for each installation type</li> <li>One for full installation</li> <li>One for upgrade installation</li> </ul>	
Additional SNMP Notification Event support	All	<ul> <li>New and enhanced SNMP notifications are added:</li> <li>BFD enterprise notifications with BFD session specific information</li> <li>Cluster up and down notifications for MCT cluster</li> <li>Maintenance mode traps for entry and exit transitions</li> <li>CPU and memory threshold monitoring traps.</li> <li>NTP status change trap</li> <li>Enhanced BGP IPv6 notifications - Established &amp; BackwardTransition traps</li> <li>Enhanced Fan failure / recovery traps</li> <li>Enhanced Power Supply failure / recovery traps</li> </ul>	
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.	

Feature Name	Supported SLX Platforms	Description
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 20.4.1b 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
	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
8520-48Y-8C-AC-R	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 included.		
SLX 9740 Fixed AC 1600W Power Supply Back to Front. Power cords not included.		
SLX 9740 Fixed DC 1600W Power Supply Front to Back. Power cords not included.		
SLX 9740 Fixed AC 1600W Power Supply Front to Back. Power cords not included.		
SLX 9740 FAN Front to Back airflow for SLX9740-40C		
SLX 9740 FAN Back to Front airflow for SLX9740-40C		
SLX 9740 FAN Front to Back airflow for SLX9740-80C		
SLX 9740 FAN Back to Front airflow for SLX9740-80C		
2-Post Rail Kit for SLX 9740-40C		
2-Post Rail Kit for SLX 9740-80C		
4-Post Rail Kit for SLX 9740-80C		
4-Post Rail Kit for SLX 9740-40C		
AC 750W PSU, Front to Back Airflow supported on VSP 7400, SLX 9150, SLX 9250, X695, Extreme 8720, Extreme 8520		
AC 750W PSU, Back to Front Airflow supported on VSP 7400, SLX 9150, SLX 9250, X695, Extreme 8720, Extreme 8520		
DC 750W PSU, Front to Back Airflow supported on VSP 7400, SLX 9150, SLX 9250, X695, Extreme 8720, Extreme 8520		
DC 750W PSU, Back to Front Airflow supported on VSP 7400, SLX 9150, SLX 9250, X695, Extreme 8720, Extreme 8520		
Front to back Fan for use in VSP 7400, SLX 9150, SLX 9250, X695, Extreme 8720, Extreme 8520		
Back to Front Fan for use in VSP 7400, SLX 9150, SLX 9250, X695, Extreme 8720, Extreme 8520		
Four post rack mount rail kit supported on VSP 7400, SLX 9150, SLX 9250, X695, Extreme 8720, Extreme 8520		
Two post rack mount rail kit supported on VSP 7400, SLX 9150, SLX 9250, X695, Extreme 8720, Extreme 8520		

# Supported Optics and Cables

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

# Supported FEC modes

# SLX 9250 and Extreme 8720

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

# SLX 9740

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

# SLX 9150 and Extreme 8520

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

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 20.4.1b see the *Extreme SLX-OS Software Upgrade Guide*.

# Image files

Download the following images from www.extremenetworks.com.

Image file name	Description
SLX-OS_20.4.1b.tar.gz	SLX-OS 20.4.1b software
SLX-OS_20.4.1b_mibs.tar.gz	SLX-OS 20.4.1b MIBS
SLX-OS_20.4.1b.md5	SLX-OS 20.4.1b md5 checksum
SLX-OS_20.4.1b-digests.tar.gz	SLX-OS 20.4.1b sha checksum
SLX-OS 20.4.1b-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	20.3.2c/d	20.3.3	20.3.4	20.3.4a/ac	20.4.1/a	20.4.1b
From								
20.2.3(MFG)	Use the normal Firmware Download / coldboot	Use fullinstall						
20.2.3ab	Use the normal Firmware Download / coldboot	Use fullinstall						
20.2.3x	NA	Use fullinstall						
20.3.2/a/b	Use fullinstall	NA	Use the					
			normal	normal	normal	normal	normal	normal
			Firmware	Firmware	Firmware	Firmware	Firmware	Firmware
			Download /					
			coldboot. For					
			downgrade	downgrade	downgrade	downgrade	downgrade	downgrade
			use	use	use	use	use	use
			fullinstall.	fullinstall.	fullinstall.	fullinstall.	fullinstall.	fullinstall.
20.3.2c/d	Use fullinstall	Use the	NA	Use the				
		normal		normal	normal	normal	normal	normal
		Firmware		Firmware	Firmware	Firmware	Firmware	Firmware
		Download /		Download /				
		coldboot		coldboot. For				
				downgrade	downgrade	downgrade	downgrade	downgrade
				use	use	use	use	use
				fullinstall.	fullinstall.	fullinstall.	fullinstall.	fullinstall.

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

# SLX 9740

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/a c	20.4.1/a	20.4.1b
20.2.1a	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.2x	Use the normal Firmware Download / coldboot*	Use the normal Firmware Download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.3x	Use the normal Firmware Download / coldboot	NA	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.3.1	Use fullinstall	Use fullinstall	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e 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/a c	20.4.1/a	20.4.1b
20.3.2/a/ b	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.
20.3.2c/d	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot. For downgrad e use fullinstall.
20.3.3	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot.			
20.3.4	Use fullinstall	Use fullinstall	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot.

То	20.2.2x	20.2.3x	20.3.1	20.3.2/a/	20.3.2c/d	20.3.3	20.3.4	20.3.4a/a	20.4.1/a	20.4.1b
•				b				С		
From										
20.3.4a/a	Use	Use	Use the	NA	Use the	Use the				
С	fullinstall	fullinstall	normal	normal	normal	normal	normal		normal	normal
			Firmware	Firmware	Firmware	Firmware	Firmware		Firmware	Firmware
			Download	Download	Download	Download	Download		Download	Download
			/ coldboot		/	/				
									coldboot.	coldboot.
20.4.1/a	Use	Use	Use the		Use the					
	fullinstall	fullinstall	normal	normal	normal	normal	normal	normal	NA	normal
			Firmware	Firmware	Firmware	Firmware	Firmware	Firmware		Firmware
			Download	Download	Download	Download	Download	Download		Download
			/ coldboot		/					
										coldboot.
20.4.1b	Use	Use	Use the	Use the	NA					
	fullinstall	fullinstall	normal	normal	normal	normal	normal	normal	normal	
			Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	
			Download	Download	Download	Download	Download	Download	Download	
			/ coldboot	/	/					
			,	,	,	,	,	coldboot.	coldboot.	

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

## Note:

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

This restriction is not 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/a c	20.4.1/a	20.4.1b
18r.2.00, 18r.2.00a/ b/c	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 :
Бус	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.2.2a/b/ c using fullinstall.	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to targeted 20.2.3 version	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.1 version using fullinstall.	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to targeted 20.3.2 version	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.2d version using fullinstall.	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.3 version using fullinstall.	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.4 version using fullinstall.	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.4a version using fullinstall.	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.4.1/a version using	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.4.1b version using fullinstall.
	For SLX 9640:	using fullinstall. For SLX	For SLX 9640:	using fullinstall. For SLX	For SLX 9640:	For SLX 9640:	For SLX 9640:	For SLX 9640:	fullinstall.  For SLX 9640:	For SLX 9640:
	1. First upgrade to 18r.2.00d via fullinstall. 2. Then upgrade to 20.1.2h using fullinstall.	9640:  1. First upgrade to 18r.2.00d via fullinstall. 2. Then upgrade to 20.1.2h using	1. First upgrade to 18r.2.00d via fullinstall. 2. Then upgrade to 20.1.2h using fullinstall. 3. Then	9640:  1. First upgrade to 18r.2.00d via fullinstall. 2. Then upgrade to 20.1.2h using	1. First upgrade to 18r.2.00d via fullinstall. 2. Then upgrade to 20.1.2h using fullinstall. 3. Then	1. First upgrade to 18r.2.00d via fullinstall. 2. Then upgrade to 20.1.2h using fullinstall. 3. Then	1. First upgrade to 18r.2.00d via fullinstall. 2. Then upgrade to 20.1.2h using fullinstall. 3. Then	1. First upgrade to 18r.2.00d via fullinstall. 2. Then upgrade to 20.1.2h using fullinstall. 3. Then	1. First upgrade to 18r.2.00d via fullinstall. 2. Then upgrade to 20.1.2h using fullinstall.	1. First upgrade to 18r.2.00d via fullinstall. 2. Then upgrade to 20.1.2h using fullinstall. 3. Then

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/a c	20.4.1/a	20.4.1b
	3. Then upgrade to 20.2.2a/b/ c using fullinstall.	3. Then upgrade to targeted 20.2.3 version using	to 20.3.1 version using fullinstall.	3. Then upgrade to targeted 20.3.2 version using	to 20.3.2d version using fullinstall.	to 20.3.3 version using fullinstall.	to 20.3.4 version using fullinstall.	to 20.3.4a version using fullinstall.	3. Then upgrade to 20.4.1/a version using fullinstall.	to 20.4.1b version using fullinstall.
18r.2.00d	For SLX 9540 :	fullinstall. For SLX 9540 :	For SLX 9540 :	fullinstall. For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :
	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.2.2a/b/c using fullinstall.  For SLX 9640:	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to targeted 20.2.3 version using fullinstall. For SLX	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.1 version using fullinstall. For SLX 9640:	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to targeted 20.3.2 version using fullinstall.	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.2d version using fullinstall. For SLX 9640:	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.3 version using fullinstall. For SLX 9640:	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.4 version using fullinstall. For SLX 9640:	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.3.4a version using fullinstall. For SLX 9640:	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.4.1/a version using fullinstall. For SLX 9640:	1. First upgrade to 20.1.2h using fullinstall. 2. Then upgrade to 20.4.1b version using fullinstall. For SLX 9640:
	1. First upgrade to 20.1.2h using fullinstall.	9640: 1. First upgrade to 20.1.2h	1. First upgrade to 20.1.2h using fullinstall.	9640: 1. First upgrade to 20.1.2h	1. First upgrade to 20.1.2h using fullinstall.	1. First upgrade to 20.1.2h using fullinstall.	1. First upgrade to 20.1.2h using fullinstall.	1. First upgrade to 20.1.2h using fullinstall.	1. First upgrade to 20.1.2h using fullinstall.	1. First upgrade to 20.1.2h using fullinstall.

To From	20.2.2a/b /c	20.2.3a to 20.2.3h	20.3.1	20.3.2/a/ b	20.3.2c/d	20.3.3	20.3.4	20.3.4a/a c	20.4.1/a	20.4.1b
	2. Then upgrade to 20.2.2a/b/ c using fullinstall.	using fullinstall. 2. Then upgrade to targeted 20.2.3 version using fullinstall.	2. Then upgrade to 20.3.1 version using fullinstall.	using fullinstall. 2. Then upgrade to targeted 20.3.2 version using fullinstall.	2. Then upgrade to 20.3.2d version using fullinstall.	2. Then upgrade to 20.3.3 version using fullinstall.	2. Then upgrade to 20.3.4 version using fullinstall.	2. Then upgrade to 20.3.4a version using fullinstall.	2. Then upgrade to 20.4.1/a version using fullinstall.	2. Then upgrade to 20.4.1b version using fullinstall.
20.1.1	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :	For SLX 9540 :
	upgrade to 20.1.2h	upgrade to 20.1.2h	upgrade to 20.1.2h	upgrade to 20.1.2h	upgrade to 20.1.2h	upgrade to 20.1.2h	upgrade to 20.1.2h	upgrade to 20.1.2h	upgrade to 20.1.2h	upgrade to 20.1.2h
	using fullinstall. 2. Then upgrade to 20.2.2a/b/ c using fullinstall.	using fullinstall. 2. Then upgrade to targeted 20.2.3 version using	using fullinstall. 2. Then upgrade to 20.3.1 version using fullinstall.	using fullinstall. 2. Then upgrade to targeted 20.3.2 version using	using fullinstall. 2. Then upgrade to 20.3.2d version using fullinstall.	using fullinstall. 2. Then upgrade to 20.3.3 version using fullinstall.	using fullinstall. 2. Then upgrade to 20.3.4 version using fullinstall.	using fullinstall. 2. Then upgrade to 20.3.4a version using fullinstall.	using fullinstall. 2. Then upgrade to 20.4.1/a version using fullinstall.	using fullinstall. 2. Then upgrade to 20.4.1b version using fullinstall.
	For SLX 9640:	fullinstall. For SLX	For SLX 9640:	fullinstall. For SLX	For SLX 9640:	For SLX 9640:	For SLX 9640:	For SLX 9640:	For SLX 9640:	For SLX 9640:
	Use fullinstall.	9640: Use fullinstall.	Use fullinstall.	9640: Use fullinstall.	Use fullinstall.	Use fullinstall.	Use fullinstall.	Use fullinstall.	Use fullinstall.	Use fullinstall.

To From	20.2.2a/b /c	20.2.3a to 20.2.3h	20.3.1	20.3.2/a/ b	20.3.2c/d	20.3.3	20.3.4	20.3.4a/a c	20.4.1/a	20.4.1b
20.1.2e, g	Use fullins tall	Use fullins tall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.1a	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.2x	NA	Use the normal Firmware Download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.3x	Use the normal Firmware Download / coldboot	NA	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.3.1	Use fullins tall	Use fullins tall	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot . For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot . For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot . For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot . For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot . For downgrad e use fullinstall.	Use the normal Firmware Download / coldboot . For downgrad e use fullinstall.
20.3.2/a/ b	Use fullins tall	Use fullins tall	Use the normal Firmware	NA	Use the normal Firmware	Use the normal Firmware				

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/a c	20.4.1/a	20.4.1b
			Download		Download	Download	Download	Download	Download	Download
			/ coldboot		/ coldboot	/ coldboot	/ coldboot	/ coldboot	/ coldboot	/ coldboot
					. For	. For	. For	. For	. For	. For
					downgrad	downgrad	downgrad	downgrad	downgrad	downgrad
					e use	e use	e use	e use	e use	e use
					fullinstall.	fullinstall.	fullinstall.	fullinstall.	fullinstall.	fullinstall.
20.3.2c/d	Use fullins	Use fullins	Use the	Use the	NA	Use the	Use the	Use the	Use the	Use the
	tall	tall	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
						. For	. For	. For	. For	. For
						downgrad	downgrad	downgrad	downgrad	downgrad
						e use	e use	e use	e use	e use
						fullinstall.	fullinstall.	fullinstall.	fullinstall.	fullinstall.
20.3.3	Use fullins	Use fullins	Use the	Use the	Use the	NA	Use the	Use the	Use the	Use the
	tall	tall	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
20.3.4	Use	Use	Use the	Use the	Use the	Use the	NA	Use the	Use the	Use the
	fullinstall	fullinstall	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
20.3.4a/a	Use	Use fullins	Use the	Use the	Use the	Use the	Use the	NA	Use the	Use the
С	fullinstall	tall	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	Use	Use fullins	Use the	Use the	Use the	Use the	Use the	Use the	NA	Use the
	fullinstall	tall	normal	normal	normal	normal	normal	normal		normal

То	20.2.2a/b	20.2.3a to	20.3.1	20.3.2/a/	20.3.2c/d	20.3.3	20.3.4	20.3.4a/a	20.4.1/a	20.4.1b
	/c	20.2.3h		b				С		
From										
			Firmware	Firmware	Firmware	Firmware	Firmware	Firmware		Firmware
			Download	Download	Download	Download	Download	Download		Download
			/ coldboot		/ coldboot					
20.4.1b	Use	Use	Use the	NA						
	fullinstall	fullinstall	normal							
			Firmware							
			Download							
			/ coldboot							

#### 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/a c	20.4.1/a	20.4.1b
20.1.1	Use the normal fir mware download / coldboot	Use the normal fir mware download / coldboot	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/a c	20.4.1/a	20.4.1b
20.1.2x	Use the normal firmware download / coldboot	Use the normal fir mware download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.1x	Use the normal firmware download / coldboot	Use the normal fir mware download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.2x	Use the normal firmware download / coldboot *	Use the normal fir mware download / coldboot	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall	Use fullinstall
20.2.3x	Use the normal fir mware download / coldboot	NA	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 fir mware download / 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/a c	20.4.1/a	20.4.1b
20.3.2/a/ b	Use fullinstall	Use fullinstall	Use the normal fir mware download / coldboot	NA	Use the normal fir mware download / coldboot					
20.3.2c/d	Use fullinstall	Use fullinstall	Use the normal fir mware download / coldboot	Use the normal fir mware download / coldboot	NA	Use the normal fir mware download / coldboot				
20.3.3	Use fullinstall	Use fullinstall	Use the normal fir mware download / coldboot	Use the normal fir mware download / coldboot	Use the normal fir mware download / coldboot	NA	Use the normal fir mware download / coldboot			
20.3.4	Use fullinstall	Use fullinstall	Use the normal fir mware download / coldboot	NA	Use the normal fir mware download / coldboot	Use the normal fir mware download / coldboot	Use the normal fir mware download / coldboot			
20.3.4a/a c	Use fullinstall	Use fullinstall	Use the normal fir mware download / coldboot	NA	Use the normal fir mware download / coldboot	Use the normal fir mware download / 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/a c	20.4.1/a	20.4.1b
20.4.1/a	Use fullinstall	Use fullinstall	Use the normal fir mware download / coldboot	NA	Use the normal fir mware download / coldboot					
20.4.1b	Use fullinstall	Use fullinstall	Use the normal fir mware download / coldboot	NA						

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

# Extreme 8520

To	20.3.3	20.3.4	20.3.4a/ac	20.4.1/a	20.4.1b
From					
20.3.3	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot
20.3.4	Use the normal Firmware Download / coldboot	NA	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot
20.3.4a/ac	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
20.4.1/a	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
20.4.1b	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	Use the normal Firmware Download / coldboot	NA

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

SLX Build	TPVM – Fresh Install Supported	EFA
20.2.2	TPVM-4.1.1	EFA-2.3
20.2.2a	TPVM-4.1.2	EFA-2.3.x
20.2.2b	TPVM-4.1.2	EFA-2.3.x
20.2.3	TPVM-4.2.2	EFA-2.4.x, EFA-2.3.x
20.2.3a	TPVM-4.2.3	EFA-2.4.x, EFA-2.3.x, EFA-2.5x *
20.3.1	TPVM-4.2.4	EFA-2.4.x
20.3.2/a/b/c	TPVM-4.2.5	EFA-2.4.x, EFA-2.5x
20.3.2d	TPVM-4.3.0	EFA-2.4.x, EFA-2.5x
20.3.3	TPVM-4.2.5	EFA-2.5x
20.3.4	TPVM-4.4.0	EFA-2.5x
20.3.4a	TPVM-4.4.0	EFA-2.6.0
20.3.4ac	TPVM-4.4.0	EFA-2.6.1
20.4.1	TPVM-4.5.0	EFA-2.7.0
20.4.1a	TPVM-4.5.0	EFA-2.7.0
20.4.1b	TPVM-4.5.1	EFA-2.7.1

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

#### Note:

Extreme 8720 and Extreme 8520 are supported from 20.3.3 onwards.

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.

# 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, 20.3.3, 20.3.4x

- SLX-OS 20.3.x, 20.2.3/x has TPVM 4.2.x. SLX-OS 20.1.2x variants have TPVM 4.0.x, which is based on Ubuntu18.
- To upgrade from TPVM 4.0 to latest, do the following:
  - Upgrade to SLX-OS 20.3.x, 20.2.3/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.
  - o Install TPVM 4.x.x using the **tpvm install** or **tpvm deploy** command.
    - Note that any additional TPVM disks, including vdb (implicitly created by TPVM 4.0.x or 4.1.x), are preserved with data during the previous steps.
  - If you need to remove the disks and start clean, then use the tpvm uninstall force command in place of tpvm uninstall in these steps. Alternatively, you can use tpvm disk remove name < disk name > to remove each additional disk manually. For example, tpvm disk remove name vdb.
- 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

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. There is a change in size of the main TPVM image to  $\sim$ 2.9 GB and the TPVM incremental update Debian file size is  $\sim$ 0.5 GB. These TPVM packages contain Ubuntu security patches available up to May 09, 2022. 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

- 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.

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

```
SLX # config terminal

SLX (config)# tpvm TPVM

SLX (config-tpvm-TPVM) # password newpassword

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

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

SLX (config-tpvm-TPVM) # hostname newhostname

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

SLX (config-tpvm-TPVM) # deploy

SLX (config-tpvm-TPVM) # end

SLX # config terminal

SLX (config)# tpvm TPVM

SLX (config-tpvm-TPVM) # hostname oldhostname

SLX (config-tpvm-TPVM) # no timezone

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

#### 5. Note:

- a. Now, 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 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, 20.3.3, 20.3.4x

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

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 <code>show tpvm</code> 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 password is migrated. This is due to the password being encrypted and stored and it is not possible to know if the password was changed during the migration.
tpvm config ntp	Migrated	
tpvm config dns	Migrated	
tpvm config ldap	Migrated	Secure LDAP require certificates. It is assumed that certificates are already downloaded and installed. Certificates are not validated

Configuration	Migration State	Notes
		during this migration. A
		notification will be sent to the
		user to reconfigure LDAP
turning a sufficient and a superior	NA:	certificate settings.
tpvm config hostname	Migrated	
tpvm config	Migrated	
timezone	Not Migrated	This is the new default
tpvm deploy <interface></interface>	Not Migrated	configuration and is not
allow-pwless		migrated.
tpvm deploy mgmt	Migrated	migrateu.
[ dhcp   static ]	Iviigiatea	
tpvm deploy	Not Migrated	Insight interface configuration is
insight		not supported
		when configuring using the
		Privilege Execution
		Mode commands.
tpvm config Idap	Not Migrated	Configuring the TPVM LDAP ca
ca-cert		certificate
dns primary-server	Migrated	Configuring the TPVM DNS IPv6
ipv6_address secondary-		with FQDN
server ipv6_address		
domain domain_name		
ntp ipv6_address	Migrated	TPVM ntp IPV6 config
interface management	Migrated	TPVM management ip with IPV6 ip
ipv6 ipv6_address [ gw		
ipv6_gw_address ]		
tpvm upgrade [ protocol	Migrated	TPVM upgrade with IPV6 remote
protocol user username		server config
password <password></password>		
host IPv6_host_address		
directory directory		
filename filename ]		
tpvm upgrade	Migrated	TPVM upgrade only the patch
incremental[ protocol		upgrade
protocol user username		
password <password></password>		
host IPv6_host_address		
directory directory		
filename filename ]		
tnum config	Not Migrated	All trusted poor configurations are
tpvm config trusted-peer	Not Migrated	All trusted-peer configurations are not migrated.
trustea-peer		ן ווטג ווווצרמגפט.

#### Additional information on TPVM Commands

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

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

### Port macro restrictions on breakout port configuration on SLX 9740

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

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

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

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

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

#### QoS

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

### Others

- sflow sampling 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.

## Open Defects

The following software defects are open in SLX-OS 20.4.1b as of June 2022:

Parent Defect ID:	SLXOS-64538	Issue ID:	SLXOS-66860	
Severity:	S3 - Moderate			
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-66825	Issue ID:	SLXOS-66996
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-67321	Issue ID:	SLXOS-67321
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.		

The following software defects are open in SLX-OS 20.4.1a as of May 2022:

Parent Defect ID:	SLXOS-66708	Issue ID:	SLXOS-66784
Severity:	S1 - Critical		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Other	Technology:	Other
Symptom:	observed the crash		
Condition:	when kernel panic is done on the device.		

Parent Defect ID:	SLXOS-63182	Issue ID:	SLXOS-66787
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-64538	Issue ID:	SLXOS-66860	
Severity:	S3 - Moderate			
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-66741	Issue ID:	SLXOS-66869	
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-66825	Issue ID:	SLXOS-66996
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.		

The following software defects are open in SLX-OS 20.4.1 as of **April 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 st	at 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 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	s are Priority Tagged (Vla	an-0 with PCP bit set).
Condition:	The connected device to the switch is configured to send Priority		
	tagged packets on an untagged port. The source MACs are not learnt		
	from IP packets on the switch.		
Workaround:	Use DSCP instead of using Priority tagging for QoS.		
Recovery:	No known recovery me	thods available.	

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:	On SLX 9740, when the user upgrades software from 20.2.2a to a
	later release, device becomes unreachable when accessing through
	an in-band port.
Condition:	Software upgrade through in-band port.

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

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

Parent Defect ID:	SLXOS-57372	Issue ID:	SLXOS-57439
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 >500 msec are seen for South - 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-56401	Issue ID:	SLXOS-57443
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3
Technology Group:	Other	Technology:	Other

Symptom:	The following Brocade branded 4x10G breakout DAC modules are not
	detected sometimes. The affected module SKU's are 40G-DACP-
	QSFP4SFP1M, 40G-DACP-QSFP4SFP3M, 40G-DACP-QSFP4SFP5M
Condition:	Over a period of time, the issue is seen from a corruption in the
	EEPROM MSA programming

Parent Defect ID:	SLXOS-56740	Issue ID:	SLXOS-57454		
Severity:	S2 - Major	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3		
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border		
	Routing/Network		Gateway Protocol		
	Layer				
Symptom:	Convergence times > 5	Convergence times > 500 msec are seen for South - North traffic			
	when a port from Border Leaf to L3 gateway is shut				
Condition:	This is a test for convergence numbers. The port between a Border				
	Leaf and an L3 gateway is shut which forces the BL to reprogram the				
	next hop for the South - North traffic to go over the ICL. The				
	convergence times vary and there are occasional spikes between 800				
	to 1000 msec.				

Parent Defect ID:	SLXOS-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 IPoMPLS 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 is killed.		

Parent Defect ID:	SLXOS-60302	Issue ID:	SLXOS-60754	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2a	
Technology Group:	Layer 3	Technology:	Static Routing (IPv4)	
	Routing/Network			
	Layer			
Symptom:	Shutting down the upli	nk port channel from the	e border leaf to the L3	
	gateway leads to traffic	convergence of nearly	1 second	
Condition:	SLX-8720 is used as the border leaf pair and SLX-9640 as L3 gateway.			
	There are 32 VRFs configured and there are IPv4 and IPv6 routes.			
	There is a port-channel between the BL nodes and the gateway. The			
	port-channel is shut at a border leaf node and the traffic is redirected			
	from the border leaf node to its peer along the ICL. The convergence			
	times for this are found to be more than expected.			
	With static routes, the convergence times are in the order of 1			
	second. With only BGP routes and PIC enabled, it was upto around			
	730 msec.			

Parent Defect ID:	SLXOS-60298	Issue ID:	SLXOS-60757	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2a	
Technology Group:	Other	Technology:	Other	
Symptom:	One of the BFD session	over MCT flaps on clust	er node. There is no	
	visible traffic loss as su	ch because the other Mo	CT peer takes the	
	traffic over ICL and for	wards it to CCEP DUT (fro	om L3 GW).	
Condition:	On reload and system r	maintenance turn-off on	an SLX8720 cluster	
	node.			
	System scale:			
	32 VRFs, at least 2 BFD over MCT, 2 HW BFD and 2 BFD over VxLAN			
	session per VRF. (one IPv4 and one IPv6) (First 20 VRFs have 10+ BFD			
	over MCT sessions towards CCEP DUTs, last 12 VRFs have 2 BFD over			
	MCT sessions towards CCEP DUTs)			
	All VE interfaces configured across all devices are dual stack.			
	SW BFD sessions: 393			
	HW BFD sessions: 65			
	960 IPv4 routes, 960 IPv6 routes from L3 GW.			
	960 IPv4 routes, 960 IPv6 routes from CCEP DUTs.			
	System-wide route scale: 3K IPv4 and 3K IPv6			
Workaround:	issue seen on Ve's atta	ched to BDs. Remove the	e VE from BD and	
	reconfigure.			

Parent Defect ID:	SLXOS-60448	Issue ID:	SLXOS-60912
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2

Technology Group:	Management	Technology:	Configuration
			Fundamentals
Symptom:	DHCP/BOOTP request	is seen sending out from	mgmt. interface event
	after disable DHCP.		
Condition:	BMC is configured as DHCP client.		
Recovery:	Manually disable DHCP option from BMC .		
	[root@slx]# bmc ipmitool lan set 1 ipsrc static		

Parent Defect ID:	SLXOS-60970	Issue ID:	SLXOS-60970
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	On SLX 9640. while programming 500 flowspec rules to hardware, a		
	BFD session is down due to "Detection Time Expired" which in turn		
	terminates BGP session. Some BGP sessions flapping are due to this.		
Condition:	In scaled setup, 500 BGP-flow spec rules are programmed 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	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b	
Technology Group:	Other	Technology:	Other	
Symptom:	When the encrypted pa	assword string has "\" o	"?" in the startup	
	config, ? or \ is missed in the running-config after config restore and			
	TPVM login will be failed			
Condition:	Encrypted password string should not have these charater "\" or "?"			
Workaround:	TPVM password command needs to be executed till the encrypted			
	password string doesn't have the '\' and '?'.			
Recovery:	TPVM password command needs to be executed again to recover			
	TPVM login			

Parent Defect ID:	SLXOS-61347	Issue ID:	SLXOS-61598
Severity:	S2 - Major		

Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2c	
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis	
			Trunking	
Symptom:	In Multi-homed enviro	nment, shutdown of an I	LACP ES Port-channel	
	may cause traffic flood	ing to other ES interface	s if the client/host	
	device is not able to de	etect link flap and contin	ue to send the traffic.	
	Whenever LACP port-c	hannel is shut, member	ports will be	
	00 0	r will be down for few m	,	
	· ·	etect link event. After the	•	
	•	ansitioned to disaggrega	•	
	•	not be able to detect lin	•	
	send traffic for some more time till LACP timeout.			
Condition:	•	Some old hosts may not be able to detect link flap when the link goes down for short period of time. SLX 9150/9250 keep the link down for		
	100msec before bring up the link as lacp individual.			
	_	·		
	If the dual homed host is not able to detect the link flap on LACP ESI			
	shut, the host continues to send the traffic till LACP timeout. SLX			
Workaround:	device may flood the traffic (in vlan) during that period.  Shutting the individual member ports along with ES port-channel			
vvorkarounu.	avoids flooding in this		in E3 port-channel	
Recovery:		ecovered automatically a	ftor LACD timeout	
necovery.		ACP timeout after 3sec (		
	interval), and stops tra	•	in case of short lach	
	Tillervaij, aliu stops tra	iiic.		

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 done and rebooted the d	

Davant Dafact ID:	CLYOC 6211F	Janua ID.	SLVOS 63136
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 afte	r 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 reload.

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 sy	nc issue happens incons	sistently 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 bu	ısy with the higher priori	ity 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 experience	ced the CPU congestion	

Parent Defect ID:	SLXOS-63052	Issue ID:	SLXOS-63052
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 3	Technology:	Static Routing (IPv4)
	Routing/Network		
	Layer		
Symptom:	Higher convergence of traffic for primary and backup static nexthops.		
Condition:	When primary nexthop goes DOWN, secondary nexthop takes time to		
	get installed and traffic	handoff happens delay	ed.

Parent Defect ID:	SLXOS-63118	Issue ID:	SLXOS-63118
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Other	Technology:	Other
Symptom:	2nd and 3rd BO ports of 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 r	eload the device.

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

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

Parent Defect ID:	SLXOS-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 firmwa	are download, other tha	n the USB.

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.	

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-65249	Issue ID:	SLXOS-65249
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:	In SLX 9740, Traffic Convergence takes ~3 seconds.		
Condition:	Nexthop change takes place in ECMP prefixes.		

Parent Defect ID:	SLXOS-65436	Issue ID:	SLXOS-65436	
Severity:	S2 - Major	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1	
Technology Group:	Layer 3 Routing/Network Layer	Technology:	Other	
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-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 VPLS bridge domain configuration may cause		
	LACP port channels to	flap.	

Workaround:	MACs can be cleared one at a time or clear MAC by one VLAN at a
	time

Parent Defect ID:	SLXOS-65885	Issue ID:	SLXOS-65889
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2ad
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	BGP sessions could flap due to BGP rate-limit thresholds.		
Condition:	BGP control packets may be dropped if BGP CPU rate-limit thresholds		
	are reached in BGP sca	ling scenarios.	

Parent Defect ID:	SLXOS-65909	Issue ID:	SLXOS-65909
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:	EFA checks if BGP session ESTABLISHED and announces failure in		
	bringing up the session established.		
Condition:	BGP session takes 30+ seconds to become ESTABLISHED. Before that		
	EFA times out and anno	ounces failure.	

Parent Defect ID:	SLXOS-66144	Issue ID:	SLXOS-66144
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	Traffic takes more than 900 msec in the N-S direction when a port		
	channel between the Gateway and Border Leaf fails. Minimum link is		
	configured over this port channel and the trigger is the shutdown of		
	one interface belonging to the port channel.		
Condition:	Minimum-link is configured between border leaf and gateway. When		
	a port channel member between them is shutdown in the BL side, the		
	PO is expected to fail. The GW should redirect the traffic to the other		
	border leaf. This was se	een to take more than 90	00 ms. The GW is a SLX
	9640.		

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 o	lestination MAC starts w	ith 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-channe	el interface.	

Parent Defect ID:	SLXOS-66291	Issue ID:	SLXOS-66291
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 pee	er group for BGP under	user vrf.

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	or 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-66494	Issue ID:	SLXOS-66494
Severity:	S1 - Critical		
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
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 deplo	yed.	

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 re	After multiple device reloads on 9740 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 <	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	ntagged.		
Workaround:	None			

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-ch	annel.	

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	mode	

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 bu	ısy with the higher priori	ty packets.

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 SLX-OS 9640, other unrelated 1G ports go down when one		
	particular 1G port is res	seated.	
Condition:	In SLX-OS 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.		

# Defects Closed with Code Changes

The following software defects were closed in 20.4.1b with code change as of June 2022:

Parent Defect ID:	SLXOS-66951	Issue ID:	SLXOS-66951
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-67058	Issue ID:	SLXOS-67058
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-67323	Issue ID:	SLXOS-67323	
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 er	nd host.	

Parent Defect ID:	SLXOS-67007	Issue ID:	SLXOS-67375	
Severity:	S3 - Moderate	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.			

The following software defects were closed in 20.4.1a with code change as of May 2022:

Parent Defect ID:	SLXOS-66305	Issue ID:	SLXOS-66798
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-66832	
Severity:	S3 - Moderate	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-66846
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 sessions bringup.		

Parent Defect ID:	SLXOS-66426	Issue ID:	SLXOS-66855
Severity:	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 p<="" th=""><th>o&gt; switchport' output h</th><th>as incorrect Active</th></phy>	o> switchport' output h	as incorrect Active
	VLANs after a VLAN is removed from the interface.		
Condition:	When a Vlan is added on to an interface in the order 'switchport trunk native-vlan <vlan-id>' and 'switchport trunk allowed vlan add <vlan-id>', due to cleanup issue, even after removing the vlan using 'switchport trunk allowed vlan remove <vlan-id>', vlan is still showing up in 'show interface <phy po=""> switchport' output and also in LIF output associated to vlan.</phy></vlan-id></vlan-id></vlan-id>		

Parent Defect ID: SL	LXOS-65321	Issue ID:	SLXOS-66866
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Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	Traffic takes more than 700 msec to converge when the port channel		
	between the border leaf and gateway fails, and the traffic is		
	redirected over the ICL		
Condition:	When one port channel between a border leaf and the gateway is		
	shutdown, the traffic should switch to the ICL. This takes more than		
	600 msec in the S-N direction.		

Parent Defect ID:	SLXOS-66893	Issue ID:	SLXOS-66936
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".	

The following software defects were closed in 20.4.1 with code changes as of **April 2022**:

Parent Defect ID:	SLXOS-42488	Issue ID:	SLXOS-42488
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Other	Technology:	Other
Symptom:	"show running-config ip prefix-list <list-name>" on specific prefix-list</list-name>		
	sometimes doesnt work		
Condition:	issue is observed durin	g highly scaled scale pre	fix-list configurations

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

Parent Defect ID:	SLXOS-56675	Issue ID:	SLXOS-56675
Severity:	S3 - Moderate		

Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3
Technology Group:	Other	Technology:	Other
Symptom:	WARNING message, Unqualified SFP transceiver for interface		
	Ethernet 0/x is detected.		
Condition:	Insert 100G LR4 optic (EQPT1H4LR4LCL100) optics.		

Parent Defect ID:	SLXOS-57274	Issue ID:	SLXOS-57274
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Management	Technology:	CLI - Command Line
			Interface
Symptom:	On execution of "show run route-map" command with route map		
	name like "show run ro	oute-map <route-map-na< th=""><th>ame&gt;" it throws error.</th></route-map-na<>	ame>" it throws error.
Condition:	Issue is seen when "show run route-map" command is invoked with		
	route map name.		

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

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

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

Parent Defect ID:	SLXOS-62256	Issue ID:	SLXOS-62256
Severity:	S1 - Critical		

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

Parent Defect ID:	SLXOS-62863	Issue ID:	SLXOS-62863
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	1+ sec of traffic loss is observed during a border leaf reload.		
Condition:	Reloading one of SLX-9740 border leaf's in a MCT configuration		

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

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

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

happens when more than 5000 BFD sessions are established over the
VxLAN tunnel.

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

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

Parent Defect ID:	SLXOS-63125	Issue ID:	SLXOS-63317
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	MAC address is not updated properly when there is MAC move		
	between MCT peer no	des multiple times.	
Condition:	In the IP fabric, the MAC move happens between the MCT peer		
	nodes.		

Parent Defect ID:	SLXOS-63941	Issue ID:	SLXOS-63960	
Severity:	S2 - Major			
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2bb	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	Unexpected reload of t	he switch		
Condition:	During the SNMP walk with 1 M routes learnt from real internet feed,			
	when any route among	when any route among the learnt routes has a longer BGP AS path		
	attribute.			

Parent Defect ID:	SLXOS-63974	Issue ID:	SLXOS-63978
Severity:	S3 - Moderate		

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

Parent Defect ID:	SLXOS-62922	Issue ID:	SLXOS-64002
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2d
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	Some IPV4 BGP sessions gets deleted only after BGP hold timer		
	expires even though BR	D has gone down	
Condition:	When configuring with Extreme Fabric Automation(EFA), and		
	EPG(End Point Group) is removed in the local node. Issue in the		
	symptom is seen on the	e remote node.	

Parent Defect ID:	SLXOS-64007	Issue ID:	SLXOS-64083
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Layer 2 Switching	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	Port-channel interface	s stay down	
Condition:	On a 8720 MCT, when	one of the MCT leaf relo	ads, port-channel
	interfaces stay down on one end, as the LACP packets are not being		
	received.		

Parent Defect ID:	SLXOS-64022	Issue ID:	SLXOS-64090	
Severity:	S3 - Moderate			
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	MAC address is not updated properly when there is MAC move			
	between MCT peer not	des multiple times.		
Condition:	In the IP fabric, the MA	In the IP fabric, the MAC move happens between the MCT peer		
	nodes.			

Parent Defect ID:	SLXOS-63334	Issue ID:	SLXOS-64111
Severity:	S2 - Major		

Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00j
Technology Group:	MPLS	Technology:	MPLS VLL - Virtual
			Leased Line
Symptom:	User may experiences one way traffic over VLL usually during failover		
	to bypass path.		
Condition:	Rarely, hardware fails to delete transit cross-connect, and hardware		
	continues to have stale Label in MPLS forwarding table.		

Parent Defect ID:	SLXOS-64141	Issue ID:	SLXOS-64145
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2d
Technology Group:	Management	Technology:	Other
Symptom:	In case, when file replay takes place during reboot of the switch and the configuration file contains CLI for Maintenance Mode - "enable-on-reboot", then log "RASLOG SMAN-1004" is generated twice. This indicates system is entering into maintenance Mode.		
Condition:	During system reload, when the configuration file replay takes place as in case of "full-install"		

Parent Defect ID:	SLXOS-63036	Issue ID:	SLXOS-64417
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Management	Technology:	SNMP - Simple
			Network
			Management
			Protocol
Symptom:	During bootup, SNMP traps for link status of VE and loopback		
	interfaces are sent even when "snmp trap lnk-status disable" is		
	configured for the interfaces		
Condition:	Issue is seen only during bootup for VE and loopback interfaces that		
	are not shutdown.		

Parent Defect ID:	SLXOS-64508	Issue ID:	SLXOS-64516
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 2 Switching	Technology:	VXLAN - Virtual
			Extensible LAN
Symptom:	Broadcast storm across IP Fabric caused by BUM traffic flooding due		
	to Layer 2 loop		
Condition:	Adding another MCT p	air into the exiting IP Fal	oric

Parent Defect ID:	SLXOS-60949	Issue ID:	SLXOS-64600
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00h

Technology Group:	Other	Technology:	Other
Symptom:	Tx Errors observed on	interfaces	
Condition:	Following different cor	ditions are required to s	ee this issue
	<ul> <li>oTraffic type</li> </ul>		
	mixed traffic with jumbo frame sizes		
	Tunneled traffic of MPLS and VPLS		
	Ingress normal - egress tunneled traffic		
	Egress port-channels		
	<ul> <li>QoS Port-Speed-Up command configured on the Port-Channels</li> </ul>		
	with the max allow	wed limit	

Parent Defect ID:	SLXOS-64668	Issue ID:	SLXOS-64673
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3c_CVR
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	During loop condition, BGP TTL1 packets maybe dropped.		
Condition:	During loop condition, BGP control packets may be classified as TTL1		
	packets and they are processed from Exception queue and maybe		
	dropped once the thre	shold is reached.	

Parent Defect ID:	SLXOS-64669	Issue ID:	SLXOS-64677	
Severity:	S2 - Major	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3c_CVR	
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border	
	Routing/Network		Gateway Protocol	
	Layer			
Symptom:	BGP sessions may flap due to high rate of incoming BGP packets with			
	TTL value 1.			
Condition:	BGP control packets with TTL value 1 may be dropped due to			
	incorrect CPU queue classification with lower rate-limit of 100 pps for			
	BGP protocols packets.			

Parent Defect ID:	SLXOS-64690	Issue ID:	SLXOS-64711
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2c
Technology Group:	Other	Technology:	Other
Symptom:	Tx Errors observed on interfaces continuously incrementing at a		
	significant number when monitored over a 24 hour period		
Condition:	Following different conditions are required to see this issue		
	oTraffic type		
	mixed traffic with jumbo frame sizes		
	Tunneled traffic of MPLS and VPLS		

•	Ingress normal - egress tunneled traffic
•	Egress port-channels
•	QoS Port-Speed-Up command configured on the Port-Channels
	with the max allowed limit

Parent Defect ID:	SLXOS-64211	Issue ID:	SLXOS-64722
Severity:	S2 – Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3d
Technology Group:	Layer 2 Switching	Technology:	LAG - Link
			Aggregation Group
Symptom:	Physical Port Laser was	not turned OFF when p	ort is made down.
Condition:	When FEC is configured, physical port Laser was not turned OFF when		
	port is made down		

Parent Defect ID:	SLXOS-64678	Issue ID:	SLXOS-64791
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	In 9250/9150/8720/8520 BFD sessions in MCT secondary border leaf		
	node may flap.		
Condition:	While MCT primary bo	rder leaf node's cluster o	comes up after reload.

Parent Defect ID:	SLXOS-64803	Issue ID:	SLXOS-64844
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4a
Technology Group:	Layer 2 Switching	Technology:	LAG - Link
			Aggregation Group
Symptom:	LACP LAG continuously flaps with reason 'timeout' or 'peer-out-of-sync'.		
Condition:	When native VLAN is used in the range of 768 to 1023 on port-		
	channel, with 'no switchport tag native' on SLX-9150/9250, port-		
	channel may flap.		

Parent Defect ID:	SLXOS-64706	Issue ID:	SLXOS-64848
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Layer 2 Switching	Technology:	VXLAN - Virtual
			Extensible LAN
Symptom:	ARP/NDs are not resolved for the hosts reachable through one		
	particular VxLAN tunnel (14th tunnel created - Tunnel 32785) in IP		
	Fabric topology.		

Condition:	BUM traffic from Tunnel 32785 is being wrongly interpreted as ICL
	BUM traffic, and getting dropped at CCEP ports, which is leading to
	the failure of ARP/ND. Moreover this wrong mapping can cause BUM
	flooding to fabric side also.

Parent Defect ID:	SLXOS-64941	Issue ID:	SLXOS-64941
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.3
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	SNMP OID extremeBgp4V2PrefixInPrefixes shows "Routes		
	Accepted/Installed + Filtered"		
Condition:	extremeBgp4V2PrefixInPrefixes value is not accurate/confusing,		
	when Filtered value is i	more than actual receive	ed routes.

Parent Defect ID:	SLXOS-64244	Issue ID:	SLXOS-64951
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2c
Technology Group:	Layer 2 Switching	Technology:	UDLD - Uni-
			Directional Link
			Detection
Symptom:	UDLD will not come-up between CE(slx) routers across mpls vll		
	networks as UDLD pkts get dropped on transient SLX routers.		
Condition:	UDLD will not come-up between CE(slx) routers across mpls vll		
	networks as UDLD pkts get dropped on transient SLX		
	routers(9540/9640/9850).		

Parent Defect ID:	SLXOS-64594	Issue ID:	SLXOS-64979
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g
Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	May notice traffic latency between end customers and data packets		
	looks lifted to CPU on transit node for processing.		
Condition:	This issue may be seen only on MCT configured topology on SLX 9540		
	and SLX 9640.		

Parent Defect ID:	SLXOS-64048	Issue ID:	SLXOS-65198
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g

Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	May notice traffic latency between end customers and data packets		
	looks lifted to CPU on transit node for processing.		
Condition:	This issue maybe seen only on MCT configured topology on SLX 9540		
	and SLX 9640.		

Parent Defect ID:	SLXOS-64855	Issue ID:	SLXOS-65254
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Security	Technology:	AAA - Authentication,
			Authorization, and
			Accounting
Symptom:	REST query for show-system-monitor fails		
Condition:	REST query for show-system-monitor from non-admin user		

Parent Defect ID:	SLXOS-64688	Issue ID:	SLXOS-65273
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 3	Technology:	ARP - Address
	Routing/Network		Resolution Protocol
	Layer		
Symptom:	When the port channe	I from an MCT node to t	ne CCEP client goes
	down, the ping to the (	CCEP client fails, even the	ough there is a path to
	the CCEP client through the ICL and the other MCT node.		
Condition:	There is a CCEP client (Linux box) connected to a pair of MCT nodes		
	through a port channel. A server is able to ping the client through the		
	MCT node-1 and the po	ort channel.	
	When the port channel is shutdown at MCT node-1, the expectation is that the packet will be sent to MCT node-2 through ICL and to the client from there. But it was found the packet was getting dropped at MCT node-2 because it was going over the ICL as a VLAN tagged packet.		
	This is applicable to SL	X 9640 and SLX 9540.	

Parent Defect ID:	SLXOS-64585	Issue ID:	SLXOS-65277
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Management	Technology:	Configuration
			Fundamentals

Symptom:	DCMD module reboot was observed when deletion of VRF
	configuration was in progress and simultaneously request was made
	to read the configuration via REST.
Condition:	The issue was seen during deletion of VRF configuration and
	simultaneously request was made to read the configuration via REST.
	This issue was seen rarely.

Parent Defect ID:	SLXOS-65380	Issue ID:	SLXOS-65405
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4a
Technology Group:	Other	Technology:	Other
Symptom:	DNX entry for TPVM is missing after device reload with running TPVM		
Condition:	Issue is observed after	device reload with runn	ing tpvm dnx entries

Parent Defect ID:	SLXOS-65398	Issue ID:	SLXOS-65426
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 2 Switching	Technology:	VLAN - Virtual LAN
Symptom:	End point group (EPG) configuration from EFA fails to create new Bridge domain (BD) logical interfaces (LIF) as the system reached maximum allowed Attachment Circuit (AC) LIF scale. EFA displays the following error: %Error: Config not allowed as it will exceed system max allowed AC LIFs', Error: EndpointGroup Creation failed		e system reached scale.
Condition:	1	9087 number fails with	
	This fix allows BD LIF so	ale to grow till 11,647 li	mit.

Parent Defect ID:	SLXOS-64783	Issue ID:	SLXOS-66047
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g
Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	Traceroute command output not showing response time for some		
	intermediate hops.		
Condition:	Traceroute command output not showing response time for some		
	intermediate hops when destination is reachable via non-		
	management VRF		

Parent Defect ID:	SLXOS-66123	Issue ID:	SLXOS-66136
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2d

Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	Unexpected reload of router		
Condition:	Unexpected reload of r	outer when BFD session	s are flapped.

Parent Defect ID:	SLXOS-64995	Issue ID:	SLXOS-66153
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Layer 3	Technology:	ARP - Address
	Routing/Network		Resolution Protocol
	Layer		
Symptom:	Some of the BFD session	ons are going down	
Condition:	SRIOV ports are connected with Leaf pair in Active-Standby mode.		
	Reload of the Leaf with active SRIOV port causes some of the BFD		
	sessions to go down.		

Parent Defect ID:	SLXOS-66145	Issue ID:	SLXOS-66157
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4a
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	Unexpected reload of router		
Condition:	Router unexpectedly re	eloaded with BFD session	n flap.

Parent Defect ID:	SLXOS-66161	Issue ID:	SLXOS-66197
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4ab
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	Unexpected reload of router		
Condition:	Unexpected reload of r	outer with BFD configur	ation

Parent Defect ID:	SLXOS-63139	Issue ID:	SLXOS-66229
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3g
Technology Group:	Layer 3 Routing/Network Layer	Technology:	Other
Symptom:	Traceroute command output not showing response time for some intermediate hops.		

Condition:	Traceroute command output not showing response time for some
	intermediate hops when destination is reachable via non-
	management VRF.

Parent Defect ID:	SLXOS-66244	Issue ID:	SLXOS-66253
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4ab
Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	Traffic was getting dropped for one or a few VLANs after restoring		
	from EFA config backup		
Condition:	The customer made an EFA backup. Removed a VRF configuration.		
	Restored the EFA back	up.	

Parent Defect ID:	SLXOS-64586	Issue ID:	SLXOS-66261
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2b
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	During loop condition, BGP TTL1 packets maybe dropped.		
Condition:	During loop condition, BGP control packets may be classified as TTL1		
	packets and they are processed from Exception queue and maybe		
	dropped once the thre	shold is reached.	

Parent Defect ID:	SLXOS-62785	Issue ID:	SLXOS-66398
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2d
Technology Group:	Layer 3	Technology:	Other
	Routing/Network		
	Layer		
Symptom:	Traffic loss of 2+ seconds observed in border leaf device.		
Condition:	When gateway link failover happens, traffic loss was observed in		
	border leaf.		

Parent Defect ID:	SLXOS-66399	Issue ID:	SLXOS-66403
Severity:	S3 - Moderate		
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection

Symptom:	Default debug level of BFD is displayed.
Condition:	On executing show debug all

Parent Defect ID:	SLXOS-66687	Issue ID:	SLXOS-66687
Severity:	S2 - Major		
Product:	SLX-OS	Reported in Release:	SLXOS 20.4.1
Technology Group:	Security	Technology:	HTTP/HTTPS
Symptom:	HTTP server is not accepting the connections and HTTP connection is refused.		
Condition:		pting the connections do adding to the device to	<u> </u>

# Defects Closed without Code Changes

The following software defects were closed in 20.4.1a without code changes as of May 2022.

Parent Defect ID:	SLXOS-66740	Issue ID:	SLXOS-66797
Reason Code:	Not Reproducible	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	I remove of EPGs from E	FA.

The following software defects were closed in 20.4.1 without code changes as of **April 2022**.

Parent Defect ID:	SLXOS-46276	Issue ID:	SLXOS-46276
Reason Code:	Not Reproducible	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	The remote end tunnel retains old VTEP IP when VTEP IP is changed		
	at the local end		
Condition:	When tunnel VTEP IP is changed locally, some of the evpn IMR routes		
	for old VTEP IP are not withdrawn. Hence old tunnel exists at remote		
	end.		
Workaround:	When VTEP IP is modif	ied, please issue "clear b	gp evpn neighbor all"

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

Parent Defect ID:	SLXOS-47644	Issue ID:	SLXOS-47644
Reason Code:	Not Reproducible	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.1

Technology Group:	Security	Technology:	ACLs - Access Control
			Lists
Symptom:	OSPF neighbourship doesn't go down after applying IP ACL on the		
	interface		
Condition:	Applying IP ACL after OSPF neighbourship up.		
Workaround:	Clear OSPF neighbours	hip after IP ACL applied.	

Parent Defect ID:	SLXOS-52329	Issue ID:	SLXOS-52329
Reason Code:	Will Not Fix	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	IP Multicast	Technology:	IGMP - Internet
			Group Management
			Protocol
Symptom:	The IGMP querier node	does not receive IGMP	joins on Multicast
	tunnel even though the	ere are receivers present	on other LVTEP. This
	causes IGMP group ent	ry expiry after the time-	out.
Condition:	1. There should be MCT nodes acting as a leaf (LVTEP) and receiver		
	should be connected to CCEP client or CEP port.		
	2. The MDT Rx path is on one MCT peer and MDT Tx path is on other		
	MCT peer.		
	3. IGMP Query should	be received on Multicast	tunnel.
	4. IGMP report should	land on the peer which i	s having MDT Rx path.
Workaround:	If Source or Receiver is	connected to one of the	MCT nodes, then it is
	recommended to confi	gure IGMP snooping que	erier for the vlan or
	Bridge domain on both	the MCT peers.	

Parent Defect ID:	SLXOS-52506	Issue ID:	SLXOS-52506
Reason Code:	Will Not Fix	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.1a
Technology Group:	Management	Technology:	Other
Symptom:	Netconf request to configure ip prefix-list without providing sequence		
	number fails and returns error.		
Condition:	Issue exists only for configuration via Netconf		
Workaround:	Workaround is to provide sequence number value in the Netconf		
	request while configuri	ing ip prefix-list	

Parent Defect ID:	SLXOS-56861	Issue ID:	SLXOS-56861
Reason Code:	Not Reproducible	Severity:	S3 - Moderate
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.2
Technology Group:	Other	Technology:	Other
Symptom:	Sometimes, a unrelated interface can go down when an optic is		
	inserted.		
Condition:	A new optic is inserted	in SLX 9740.	

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

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

Parent Defect ID:	SLXOS-61371	Issue ID:	SLXOS-62218
Reason Code:	Network Tuning	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2
Technology Group:	Other	Technology:	Other
Symptom:	On SLX 9740, and breakout port cli command on a port-macro group,		
	can cause other ports in same group to flap sometimes.		
Condition:	Issue is seen when the	breakout command is co	onfigured.

Parent Defect ID:	SLXOS-62270	Issue ID:	SLXOS-62361
Reason Code:	Not Reproducible	Severity:	S3 - Moderate
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2c
Technology Group:	Monitoring	Technology:	Port Mirroring
Symptom:	When VLAN is configured as source in monitor session, mirroring		
	stops working after rebooting device		
Condition:	Configure flow based mirroring session with VLAN as source		
Workaround:	1)Delete Monitor configuration		
	2)Remove the ACL bind	ling from the VLAN inter	face

3)Configure monitor session with VLAN as source
4)Bind L2 ACL on the VLAN interface.

Parent Defect ID:	SLXOS-62507	Issue ID:	SLXOS-62712
Reason Code:	Not Reproducible	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.2c
Technology Group:	Layer 2 Switching	Technology:	VXLAN - Virtual
			Extensible LAN
Symptom:	HSLagt daemon crash		
Condition:	HSLagt daemon termination is seen when VxLAN tunnel creation and		
	deletion operations ha	ppen at very quick inter-	val

Parent Defect ID:	SLXOS-60455	Issue ID:	SLXOS-62870
Reason Code:	Feature/Function Not	Severity:	S3 - Moderate
	Supported		
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00ch
Technology Group:	Layer 2 Switching	Technology:	xSTP - Spanning Tree
			Protocols
Symptom:	RPVST flaps on SLX device		
Condition:	when root bridge chan	ge occurs without any us	ser intervention

Parent Defect ID:	SLXOS-62690	Issue ID:	SLXOS-62986
Reason Code:	Insufficient	Severity:	S3 - Moderate
	Information		
Product:	SLX-OS	Reported in Release:	SLXOS 20.2.3d
Technology Group:	Layer 3	Technology:	BGP4 - IPv4 Border
	Routing/Network		Gateway Protocol
	Layer		
Symptom:	BGP session is down on SLX device		
Condition:	Interface down on SLX due to failure on the LACP BPDU's. This will		
	lead to BGP session do	wn.	

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

Parent Defect ID:	SLXOS-62722	Issue ID:	SLXOS-63001
Reason Code:	Feature/Function Not	Severity:	S2 - Major
	Supported		

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

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

Parent Defect ID:	SLXOS-62093	Issue ID:	SLXOS-63015
Reason Code:	Insufficient	Severity:	S3 - Moderate
	Information		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2f
Technology Group:	Layer 3	Technology:	BFD - BiDirectional
	Routing/Network		Forwarding
	Layer		Detection
Symptom:	SLX stops forwarding the Traffic after the unexpected reload		
Condition:	BGP is configured on a SLX node. While processing the BGP packets,		
	sometimes the switch reloads.		
Recovery:	Power cycle the switch.		

Parent Defect ID:	SLXOS-60943	Issue ID:	SLXOS-63018
Reason Code:	Feature/Function Not	Severity:	S3 - Moderate
	Supported		
Product:	SLX-OS	Reported in Release:	SLXOS 20.1.2g
Technology Group:	Monitoring	Technology:	sFlow
Symptom:	Sflow collector is configured for user vrf		
Condition:	Sflow sample reaching sflow collector via default vrf.		

Parent Defect ID:	SLXOS-63092	Issue ID:	SLXOS-63092
Reason Code:	Not Reproducible	Severity:	S2 - Major
Product:	SLX-OS	Reported in Release:	SLXOS 20.3.4

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

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

Parent Defect ID:	SLXOS-62135	Issue ID:	SLXOS-64196
Reason Code:	Already Implemented	Severity:	S3 - Moderate
Product:	SLX-OS	Reported in Release:	SLXOS 18r.1.00b
Technology Group:	Monitoring	Technology:	RAS - Reliability,
			Availability, and
			Serviceability
Symptom:	Logs indicating flash size usage crossing high boundary		
Condition:	/var/log/hasm.log file size is large, with no impact on functionality		