

SLX-OS 18s.1.03 Release for the ExtremeSwitching SLX 9140 and SLX 9240 Platforms, Release Notes v1.0

September 2019

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Contents

Copyright Statement and Legal Notices	2
Document History	4
Preface	5
Software Features	7
Supported Optics	22
Documentation Supporting SLX-OS	25
Software Upgrade and Downgrade	26
Limitations and Restrictions	33
Defects	40

Document History

Version	Summary of changes	Publication date
1.0	Initial Release	September 2019

Preface

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

This section addresses features introduced in the current release as well as those introduced in the previous release.

SLX-OS 18s.1.03 New features summary

SLX-OS 18s.1.0.3 is the fifth release in a series for SLX Switching platforms. SLX 9140 and SLX 9240 are the target platforms for this release and are mainly focused on the Network Packet Broker (NPB) and Datacenter solutions. No new hardware platform is added in this release, and only software features are added.

NOTE. This document includes information that is supported in previous release.

The key features for SLX-OS 18s.1.03 are focused on NPB and Datacenter Solution features enhancing manageability, user experience on SLX.

The new features are as follows:

Data Center features:

TACACS+ AAA Command Authorization:

With the introduction of AAA Command Authorization feature, authorization request will now be sent to configured TACACS+ server when TACACS+ command authorization is configured. Execution of a particular command for a particular user will be allowed or denied based on the accept and deny rule configured on the TACACS+ server for that user.

DHCP Relay Source Interface Configuration:

This feature mainly used in SAG environment where SAG will act as DHCP relay agent address. The path from SAG to DHCP server works without any problem. Also, path from DHCP server to the SAG exists but the response may arrive at a different switch than the original one as the SAG is inherently distributed across many switches. In this environment, the unique loopback address will act as Gateway IP Address to forward response back to the client. The link selection sub-option will decide which subnet is correlated to the DHCP request.

Extreme Cloud Connect:

ZTP+ is a mechanism through which the device interacts with Extreme Management Center (XMC) by installing a cloud connector (CC) plugin on the device. The CC will reach out to XMC to notify that it is now on the network and will go through several states validating the version of software, configuration, configuration changes and configuration and status updates.

App telemetry on SLX 9140:

This feature helps to extract network analytics, for example, application name, flow pathing, bandwidth, and latency from Extreme Networks SLX switch platforms. It uses the sFlow and the Encapsulated Remote Switched Port Analyzer (ERSPAN) protocols to extract and transport specific raw packets and sampled flows from the SLX-OS switches to Extreme Analytics processing engines for further analysis.

NPB features:

Load Balancing Support for Logical NPB Grid:

This feature allows load balancing among a set of destinations. We introduce a new construct called the load balance destination group which has a set of destinations. Depending on the frame hash, the frame is sprayed to one of the members of such a load balance group. Each load balance group has one or more destinations. A policy result is a PBF destination group which can comprise of a one or more destination load balance groups and/or destinations.

Egress Packet Truncation:

The egress packet-truncation feature enables you to truncate source packets to a certain number of octets and forward it to a particular destination. Truncation is performed at the 'flow' level. The truncation functionality is achieved by defining a truncation profile, which contains a user-specified interface and truncation size and assigning it to a route-map. The truncation profile determines the final length of the egress frames on the selected flows.

SLX-OS 18s.1.02 and patch release feature summary

The following are the major features added in earlier releases SLX-OS 18s.1.02/18s.1.01/18s.1.01c patch.

Feature Name	Use case
Support for LLDP in NPB mode	NPB
Reporting packet drop counts along packet forwarding path	NPB
Support for Telemetry streaming profiles, including LLDP link status and	NPB
neighbor info	
Logical NPB Grid for Forte (NSH Tagging for node identification in fabric)	NPB
Internal loopback support	NPB
On-board packet capture	NPB
IGMPv2 snooping with MCT	DC
SNMP Enhancements	DC
Management ACL to block ICMP timestamp in response packet	DC
EFA with additional support for SLX 9240 as a leaf	DC
New Optics Qualification	ALL
25G-LR Media, 10GBASE-T SFP+ and 100G DAC cable support for 5m reach	
Qualify SLX 9240 as a high-density leaf	DC

SLX-OS 18s.1.03 New features details

TACACS+ AAA Command Authorization

Prior to this release, authorization was enforced by the Extreme's role-based access control (RBAC) protocol at the device level. With the introduction of AAA Command Authorization feature, authorization request will now be sent to configured TACACS+ server when TACACS+ command authorization is configured by running 'aaa authorization command tacacs+'.

A few key points regarding this feature are:

- Authorization will be done for all the users including 'admin'
- If TACACS + server doesn't find the user configuration for the user executing the CLI (in its configuration file), then it will reject all the commands for that particular user (even 'admin').
- To avoid the above situation, user with name 'DEFAULT' can be created on the TACACS+ server.
- Execution of every command will pass through authorization process, when AAA authorization is enabled.
- TACACS+ authorization is disabled by default.
- Along with TACACS+ config, user can also configure 'local' option so that when configured TACACS + servers are not reachable, execution of a command can happen based on local RBAC rules.
- If the 'local' option (after *tacacs+*) is not selected while configuring '*aaa authorization*' and if all the configured TACACS+ servers are not reachable then, execution of all commands will fail.

In order to recover from this situation, a fallback approach has been implemented. In this case, only 'admin' user will be allowed to execute only 'aaa authorization' command so that the 'admin' user can unconfigure 'aaa authorization' by running – 'aaa authorization command none' or can select the 'local' option by running – 'aaa authorization command tacacs+ local'.

DHCP Relay Source Interface Configuration

In modern DCs SAGs are of great value helping to reduce the amount of IP addresses needed. DHCP helps to reduce the time to deliver resources and makes the environment more flexible. In this context using the SAG as an DHCP relay agent should be possible. In the current implementation in SLX-OS the direction from the SAG to the DHCP server works without problems. And also the path back from the DHCP server to the SAG exists. But by its nature the SAG is distributed over some or many TOR switches and the response from the DHCP server might arrive at a different switch then the original sender.

In this scenario using unique loopback address as GIADDR along with Relay Agent Information Option (Option82) can be useful. Client connected leaf node can use unique loopback IP as GIADDR and can add Option82 with circuit-ID, remote-ID and link-selection sub-options. Link-selection Option82 sub-option can have the client connected network address (the SAG IP network). If DHCP server supports Option-82 link selection sub-option, then the server can be configured to allocate IP address based on link selection

sub-option. If not, then server can be configured to allocate based on circuit-ID/remote-ID sub-options. DHCP server reply with Gateway IP Address as DIP which is unique loopback address of the relay agent.

Few key points regarding this feature are:

- The link selection sub-option takes on the normal role of the Gateway IP Address in relaying to the DHCP server which subnet is correlated to the DHCP request.
- When using this sub-option, the Gateway IP Address continues to be present but only relays the IP address that is to be used by the DHCP server to communicate with.
- Global Option-82 should be enabled along with gateway address configuration in relay agent.
- DHCP server should be configured to support GIADDR and Option-82 link-selection sub-option.
- Consumes unique IP address per node.
- RFC 3527 supports only DHCPv4 relay, so this feature will not be supported for IPv6.
- On downgrade feature won't be supported.

Extreme Cloud Connect

ZTP+ or Enhanced ZTP is a mechanism through which the device interacts with Extreme Management Center (XMC) by installing a cloud connector (CC) plugin on the device. The CC will reach out to XMC to notify that it is now on the network and will go through several states validating the version of software, configuration, configuration changes and configuration and status updates. By having the CC initiate communication with XMC, it will also support XMC in the cloud and allow for access behind a company's firewall. ZTP+ uses HTTPS to provide secure communications between XMC and the device.

Few key points regarding this feature are:

- To support ZTP+, SLX devices should launch Cloud Connector process in ZTP mode.
- Cloud Connector, will be run one-time completion mode i.e. the CC will not run in persistent mode, rather it will bail out on completion of ZTP+ state machine.
- Since SLX OS has native ZTP support, both native ZTP and ZTP+ functionalities are available. It is up to the user choice to configure appropriate.
- Current ZTP+ support is only with XMC and not cloud based management center.
- Only out-of-band management is supported in this release.
- Configuration supported via ZTP+
 - Image upgrade (This requires XMC configuration, prior to bring up of devices) via SCP, FTP
 - Static Management IP
 - o Gateway
 - o DNS
 - Host name
 - SNMP v3 configuration
 - NTP server (time zone is not supported due to mismatch in XMC and Switch configuration)

App telemetry on 9140

The primary purpose of Application Telemetry is to extract network analytics, for example, application name, flow pathing, bandwidth, and latency from Extreme Networks SLX switch platforms.

This feature is supported only on the SLX 9140. You can use either sFlow or Application telemetry or both at the same time, as they can co-exist on a switch. sFlow must be enabled to use Application Telemetry.

Application Telemetry uses the sFlow and the Encapsulated Remote Switched Port Analyzer (ERSPAN) protocols to extract and transport specific raw packets and sampled flows from the SLX-OS switches to Extreme Analytics processing engines for further analysis. When a switch is added as a telemetry source, an Extreme Management Center (XMC) server runs a Tcl script that configures the switch automatically. Manual configuration is also supported.

The first set of raw traffic information is produced by highly specific ingress ACLs (processed within the SLX-OS hardware); these ACLs are applied at the system level (on all interfaces) of an SLX-OS switch to match specific packet types (for example, TCP SYN or DNS packets) with the purpose of mirroring these

packets to the Extreme Analytics engine for further analysis. The ACL-filtered traffic is encapsulated and transported by means of the ERSPAN protocol towards Analytics Engines where, as with the ACLs, processing is handled by the SLX-OS hardware.

The second set of raw traffic is generated by the standard sFlow protocol and is enabled on all SLX-OS interfaces. By its very nature, sFlow is a sampled packet technology that is processed within the SLX-OS CPU. The sampled traffic is then transported over UDP to the analytics engine for further analysis.

The analytics engine processes the ERSPAN flows to extract application details, network flows, network response time for TCP-based flows, application response time for HTTP, HTTPS (SSL), DNS, DHCP, and so on. The sFlow information is used to deduce the bandwidth calculations of the individual flows and applications.

The result is that the application name, network response time, and application response time extracted from the ERSPAN mirrored traffic provides the basic Application Telemetry flow. When a sampled sFlow is matched to a basic flow, an enhanced Application Telemetry flow is produced that contains packet and byte counters, along with the details of a network to a switch interface.

A few key points regarding this feature are:

- The feature is enabled and disabled at the global level.
- A telemetry policy file is copied to the switch, by means of an XMC server script, over TFTP.
- SLX-OS saves 133 Application Telemetry filters in a telemetry.pol file.
- The IP address of the sFlow agent (the management IP address of the switch) and the IP address of the first collector in the default VRF acts as the source and destination for Generic Routing Encapsulation (GRE) configuration.
- Only one sFlow collector is supported for this feature. If multiple collectors are configured, the first collector configured with the default VRF is selected. This feature supports only the first sFlow IPv4 collector with the default VRF.
- If no sFlow collector is configured with the default VRF, an error is returned when the feature is enabled.
- The feature uses three new TCAM profiles, app-tele-l2-l3-iacl, app-tele-l3-iqos-l2-iacl and app-tele-l3-iqos-l3-iacl to optimize hardware resources.

NPB feature - Egress Packet Truncation

The egress packet-truncation feature enables you to truncate source packets to a certain number of octets and forward it to a particular destination. Truncation is performed at the 'flow' level. The truncation functionality is achieved by defining a truncation profile, which contains a user-specified interface and truncation size, and assigning it to a route-map. The truncation profile determines the final length of the egress frames on the selected flows.

To reference an interface in a truncation profile, it must first be placed into loopback mode. Only four truncation profiles can be created and referenced in route maps. A route-map or route-map stanza can reference a single truncation profile any number of times.

<u>NOTE</u>

On supported platforms, extra 10 bytes are appended to the frame after truncation. These 10 bytes includes the 4 byte FCS. For example, if you set the truncation size as 256 bytes, the frame size on the wire will be 266.

A few key points regarding this feature are:

- New CLI for creating a Truncation Profile.
- The interface configured under the profile will be configured as a loopback interface (along with the required settings to achieve truncation).
- An interface cannot be associated with more than one Truncation Profile.
- The interface cannot be used for any other purpose and it cannot have any config (route-map, strip-*, ...).
- Upto 4 Truncation Profiles are supported in this release.

NPB feature - Load Balancing Support for Logical NPB Grid

This feature allows load balancing among a set of destinations. We introduce a new construct called the load balance destination group which has a set of destinations. Depending on the frame hash, the frame is sprayed to one of the members of such a load balance group. Each load balance group has one or more destinations. The following are the changes.

- New CLI introduced to create load balance group, add, modify and remove members.
- New option to the destination group CLI. The destination group used to have a set of destinations. Now, we allow a destination group to have a set of destinations and/or destination-load balance groups.
- Show cli for destination load balance groups.
- A maximum of 31 members are supported for a given destination load balance group.

SLX-OS 18s.1.02 and patch release feature detail

IP directed broadcast on an interface

A directed broadcast is an IP broadcast to all devices within a directly attached network or subnet. You can enable IP directed broadcast on a Layer 3 interface. The Layer 3 interface can be a physical Ethernet interface or a VE interface. When the device receives a packet with a destination IP address as broadcast IP and IP directed broadcast is enabled on an interface through which the destination network is reachable, the interface floods the packet to all hosts of that network. IP directed broadcast is supported on both default and user-defined VRFs.

Enabling IP directed broadcast on an interface

By default, IP directed broadcast is disabled on the interfaces of the device. Perform the following steps to enable IP directed broadcast on an Ethernet interface.

- 1. From privileged EXEC mode, access global configuration mode. device# configure terminal
- Specify the interface. device(config)# interface ethernet 0/2
- Enable IP directed broadcast on the interface. device(config-if-eth-0/2)# ip directed-broadcast.

Embedded Fabric Automation (EFA over TPVM)

EFA over TPVM is an application that can be installed on the TPVM (Third Party Virtual Machine) on the SLX 9240 (spine). The application is bundled as part of the SLX-OS firmware and can be used to configure an IP Fabric on the SLX 9240,SLX 9140,SLX 9030, SLX 9030T, SLX 9540. EFA over TPVM is documented in the "Embedded Fabric Automation" chapter of the *Extreme SLX-OS IP Fabrics Configuration Guide*. The following platform roles are supported: SLX 9240, SLX 9140, SLX 9140, SLX 9030T, SLX 9030T, SLX 9030T, SLX 9030T, SLX 9030T, SLX 9540 as a leaf, and SLX 9240 as a spine for CLOS topology. SLX 9140 platform is supported for non-CLOS topology.

Following orchestration is supported from EFA on TPVM:

- 3-stage CLOS IP Fabric
- Non-CLOS IP fabric

NOTE: It is recommended to deploy EFA over TPVM on one of the spine platforms, i.e. SLX 9240, for CLOS topology and on one of the SLX 9140 platforms for non-CLOS topology.

EFA 2.0.0

Extreme Fabric Automation (EFA) is also known as Data Center Automation Application (DCA) runs on standalone external server is a Go-based, scalable Golang-based application that orchestrates the following installations:

- 3-stage IP Fabric
- 5-stage IP Fabric
- Tenant Aware Networks

For details refer to:

- Extreme Fabric Automation 2.0.0 Administration Guide v1.0
- Extreme Fabric Automation 2.0.0 Release Notes v1.0

SLX 9140 and SLX 9240 as Network Packet Broker

SLX-OS HW can be used as standard switching/routing or in NPB-only mode. NPB features are enabled only in NPB mode with the following enhance header stripping and Flex ACL features with advance NPB scale. The following table summarizes the NPB features introduced with SLX-OS 18s.1.00.

Feature Name	Feature Description
NPB Parser	The ability to parse new set of protocol on existing hardware. VXLAN, NVGRE, ERSPAN, IP-GTP-IP, IP-GRE-IP, IP-IP, EOMPLS, IPOMPLS,
	IPv4/IPv6/ARP . Offset agnostic parsing up to inner L4/payload parsing. Payload (4/8/16/32) bytes follow the last possible parsed header.
Header Stripping	The ability to strip the header, for example, tunnel encapsulation and BR/VN tags for customer tools to analyze traffic that may or may not be able to handle some of the tags or packet encapsulations during traffic analysis.
Flex/UDA Match ACL	The ability to filter based on deep packet inspection (DPI) or combination of MAC, IP fields using user-defined Flex ACLs (new for SLX 9240 and SLX 9140 platforms). Parses relatively deep into the packet. In MLX and SLX 9540 the UDA is based on offset/pattern match.

Consolidated Features in SLX-OS 18s.1.03

The following table lists the features introduced since SLX-OS 18s.1.00.

NPB Mode Features

 802.1BR VN-Tag MPLS Label (EOMPLS & IPOMPLS) GTP -U-v1 VXLAN Encap ERSPAN-II NVGRE Encap 	 Per port support of header stripping, enabled or disabled via CLI Tag stripping: 802.1BR or VN-ag (either one is supported) Tunnel encapsulations stripping VXLAN, NVGRE, ERSPAN-II/GTP-U-v1/MPLS Filter traffic using policy engine, based on values of fields in the tags/encapsulations in addition to standard L2/L3/L4 fields (outer and/or inner) Multiple stripping configurations per port.
 <i>Transparent VLAW</i> Aggregation Replication VLAN filtering VLAN tag add VLAN tag delete Combination of VLAN delete and VLAN add with header stripping. Max TVF domains 	 Aggregate flows from multiple taps to a single egress interface. Replicate flows from a single tap to multiple egress interfaces Filter flows from tap to forward or drop based on route map policies Outermost VLAN tag in the forwarded frame will be deleted New VLAN tag will be added in standard canonical format Route maps to be applied on ports or port-channels. Maximum supported TVF domains is 4096

 Super ACL capability Limited deep packet inspection (DPI) 	 Deep packet inspection of tunneled traffic to filter specific flows, especially traffic that cannot be filtered using standard or extended MAC/IP ACLs. Uses Flex ACLs (new for SLX 9240 and SL 9140 platforms). Dictionary format CLI Super ACL capability for traffic (tunneled or not) to match packet fields spanning across well-known layers.
 Scale Improvements L3 L2 Flex Per Core (2 core per switch) 	 IP policy-based forwarding entries (IPACL): 2048 (IPV4+IPV6) MAC policy-based forwarding entries (L2ACL): 4000 Flex policy-based forwarding entries (Flex): 1024 Ports per LAG: 64 TVF domains: 4096
VLAN	• 400 VLANs

 Support for LLDP in NPB mode Reporting packet drop counts along packet forwarding path Support for Telemetry streaming profiles, including LLDP link status and neighbor info Logical NPB Grid for Forte (NSH Tagging for node identification in fabric 	 NPB grid load balancing(new) Egress packet truncations(new)
 Onboard packet capture Internal loopback support 	 Onboard packet capture - capture ingress/egress data frames in PCAP format for a given port in NPB mode only, one port at a time. Auto stop afte capturing designated number of frame Internal loopback - service chaining in NPB operations. Deep packet header inspection.

New Optics Qualified		
 25G SFP28 LR 40G Bi Di media 10GBASE-T SFP+ 100G DAC cable support for 5 m reach 	 10504 40G Bidirectional media support 10338 100G-QSFP-QSFP-P-0501 	

Misc Features		
Port Breakout Support	Support for 4x25G	
Dynamic Breakout Support	Eliminates the need to reload the system when breakout or non-breakout on ports.	

NPB features supported in 18s.1.02 release

SLX 9140 and SLX 9240 as Network Packet Broker Logical Grid

NPB Grid is a network of NPB mode SLX switches with Aggregators (connected to TAP devices) and Distributors (connected to various Destination tools). The Distributor can operate in an intermediate node to support multi-hop NPB grid. The main advantage of the NPB grid is an efficient usage of network probes visibility to network tools. All the devices in the grid are controlled by Extreme Visibility Manager (EVM). EVM should have knowledge of the topology and the paths between TAPs and Destination tools connected to the grid as well as the interconnections. The user can use EVM to configure policy rules to direct traffic from TAP interfaces to various Destination tools.

LLDP Support in Network Packet Broker Mode

LLDP protocol works in NPB mode as in default Switch mode. The only difference is that since BGP is not supported in NPB mode, the BGP TLVs are not supported in LLDP.

A few key points regarding this feature are:

- LLDP is disabled on all the SLX 9140 and SLX 9240 loopback interfaces and all interfaces connected to Taps, Tools, and non-SLX devices.
- LLDP is enabled on all other SLX 9140 and SLX 9240 interfaces connected to SLX devices that are monitored by EVM.

Telemetry Streaming Profiles

The telemetry streaming modules on SLX device collates network information such as interface statistics, system utilization, PBR statistics, LLDP neighbor information, link states etc., from various protocol modules and streams out to configured collector server. SLX streams the data in JSON format to the telemetry collector which processes network telemetry data from multiple SLX NPB switches. It is designed to handle NPB telemetry updates broadly classified into Periodic and Event profiles which then massages and pushes data to its clients. In the context of NPB Grid solution, these clients would be EVM Statistics Manager and Graph Engine.

Packet drop counts along packet forwarding path

A new CLI commands have been introduced to dump the packet drop counters. For each type of frame, the number of packets forwarded, called 'packet count' and the number of frames dropped, by 'drop count' are displayed. These counters are not per-port, but rather global system wide counters. This CLI is applicable only in NPB mode, for frame which does not have a destination and tends to get dropped as a result of policy hit or tool ID table hit (for NPB grid scenario).

Data Center Solutions	
IGMPv2 Snooping with MCT	
	 IGMPv2 snooping support on MCT. BGP EVPN based IGMP state syncing. IGMP VLAN and Group Based DF election for traffic forwarding to MCT clients.
	Note:- Bridge Domain (BD) case is not supported.
SNMP Enhancements	
	 Support to disable SNMP traps for interface link status change events for Ethernet, Loopback, VE, and port-channel interfaces. Allow SNMP server to be disabled/enabled for specific VRFs or for all the VRFs.
Mgmt ACL to block ICMP timestamp in respon	se packet
	 Allows ICMP timestamp requests and responses to be dropped, by default, as a security policy. If an ACL with a <i>"permit icmp any any"</i> rule is applied to the management interface, such a rule permits ICMP timestamp requests but ICMP timestamp response is blocked.
Qualify SLX 9240 as a high-density leaf	
	 Allows to deploy SLX 9240 as a high-density leaf node in an IP fabric environment, similar to SLX 9140. Routing in and out of Tunnel (RIOT) is not supported with IPv6. Reduced scale numbers compared to 9140.

Supported Optics

For a list of supported fiber-optic transceivers that are available from Extreme, refer to the latest version of the Extreme Optics Family Data Sheet available online at <u>www.extremenetworks.com</u>.

Description	Orderable PN	P/N
1000Base-SX	1G-SFP-SX-OM	33210-100
1000Base-LX	1G-SFP-LX-OM	33211-100
1GE Copper SFP (Pseudo-Branded)	1G-SFP-TX	33002-100
1GE Copper SFP (BR-Branded)	1G-SFP-000190	57-1000042-02
10GE USR SFP+	10G-SFP-USR	57-1000130-01
10GE USR SFP+, 70C TAA	10G-SFP-USR-SA	57-1000343-01
10GE SR SFP+, 85C	10G-SFP-SR	57-0000075-01
10GE SR SFP+, 70C	10G-SFP-SR-S	57-1000340-01
10GE SR SFP+, 70C TAA	10G-SFP-SR-SA	57-1000344-01
10GE LR SFP+, 85C	10G-SFP-LR	57-0000076-01
10GE LR SFP+, 70C	10G-SFP-LR-S	57-1000341-01
10GE LR SFP+, 70C TAA	10G-SFP-LR-SA	57-1000345-01
10GE AOC 7M	10GE-SFP-AOC-0701	57-1000273-01
10GE AOC 10M	10GE-SFP-AOC-1001	57-1000274-01
10GE Direct Attach 5M Active	10G-SFP-TWX-0501	58-1000023-01
10GE Direct Attach 1M Active	10G-SFP-TWX-0101	58-1000026-01
10GE Direct Attach 3M Passive	10G-SFP-TWX-P-0301	58-1000025-01
Description	Orderable PN	P/N
10GE Direct Attach 5M Passive	10G-SFP-TWX-P-0501	58-1000019-01
25G SR	25G-SFP28-SR	57-1000342-01
25GE Direct Attach 01M Passive	25G-SFP28-TWX-P-0101	58-000064-01

25GE Direct Attach 03M Passive	25G-SFP28-TWX-P-0301	58-0000065-01
40GE QSFP+ SR4	40G-QSFP-SR4-1	57-1000128-01
4x10GE QSFP+ LR4, 10km,	40G-QSFP-LR4-INT	57-1000477-01
40GE BiDi QSFP+	40G-QSFP-SR-BIDI	57-1000339-01
40GE QSFP+ LR4, 10KM, 70C	40G-QSFP-LR4-1	57-1000263-01
40GE QSFP+ SR4 to 10G-SR SFP+	40G-QSFP-SR4-INT	57-1000129-01
40GE QSFP to QSFP 1M Cable(Passive)	40G-QSFP-C-0101	58-0000033-01
40GE QSFP to QSFP 3M Cable(Passive)	40G-QSFP-C-0301	58-0000034-01
40GE QSFP to QSFP 5M Cable(Passive)	40G-QSFP-C-0501	58-0000035-01
4x10GE QSFP+ to 4 SFP+ Active copper cable - 1m	40G-QSFP-4SFP-C-0101	58-0000051-01
4x10GE QSFP+ to 4 SFP+ Active copper cable - 3m	40G-QSFP-4SFP-C-0301	58-0000052-01
4x10GE QSFP+ to 4 SFP+ Active copper cable - 5m	40G-QSFP-4SFP-C-0501	58-0000053-01
40GE QSFP to QSFP cable - 10m AOC	40G-QSFP-QSFP-AOC-1001	57-1000306-01
100GE QSFP28 SR4	100G-QSFP28-SR4	57-1000326-01
100GE QSFP28 LR4 (3.5W)	100G-QSFP28-LR4-LP-10KM	57-1000338-01
100GE QSFP28 CWDM	100G-QSFP28-CWDM4-2KM	57-1000336-01
100G QSFP28 Active Optical (10m)	100G-QSFP-QSFP-AOC-1001	57-1000347-01
Description	Orderable PN	P/N
100GE QSFP28 LRL 2km	100G-QSFP28-LR4L-2KM	57-1000329-01

Note: 10GE LR SFP+, 85C multi speed optic can operate on 10G as well as 1G.

New optics supported starting with SLX18s.1.01

Description	Orderable PN	P/N
25G SFP28 LR (10km), Single Mode, LC-connector, 70degC	25G-SFP28-LR	10504

Supported Mellanox 10G optics:

- 10G USR SFP+
- 10G SR SFP+
- 10G LR SFP+

DAC cables:

- 40G-QSFP-QSFP-P-0X01: passive 40G direct attached copper cables (X = 1, 3, 5m reach)
- 40G-QSFP-QSFP-C-0X01: active 40G direct attached copper cables (X = 1, 3, 5m reach)
- 40G-QSFP-4SFP-C-0X01: active 40G direct attached breakout copper cables (X = 1, 3, 5m reach)
- 100G-QSFP-QSFP-P-0101: 100GE Direct Attached QSFP-28 to QSFP-28 Passive Copper cable, 1m
- 100G-QSFP-QSFP-P-0301: 100GE Direct Attached QSFP-28 to QSFP-28 Passive Copper cable, 3m

Documentation Supporting SLX-OS

SLX-OS 18s.1.03

For documents supporting this release, see the following:

https://www.extremenetworks.com/support/documentation/slx-s-series-software-18s-1-03/

SLX-OS 18s.1.01c

For documents supporting the most recent previous release, see the following:

https://www.extremenetworks.com/support/documentation/slx-s-series-software-18s-1-01c/

SLX-OS 18s.1.01

For additional documentation support, see the following:

https://www.extremenetworks.com/support/documentation/slx-s-series-software-18s-1-01/

Software Upgrade and Downgrade

This section includes information that supports both the current and previous release.

SLX-OS 18s.1.03

Image file names

Download the following images from <u>www.extremenetworks.com</u>.

Image file name	Description
slxos18s.1.03.tar.gz	SLX-OS 18s.1.03_ software
slxos18s.1.03_all_mibs.tar.gz	SLX-OS 18s.1.03_MIBS
slxos18s.1.03.md5	SLX-OS md5 checksum
tpvm2.1.0.tar.gz	TPVM image

To Install SLX-OS 18s.1.03 from the network:

Run command: firmware download scp host <ip-address> <directory>

Where: <directory> is where the image is downloaded.

To Install SLX-OS 18s.1.03 from a USB device, follow the steps below:

Step 1: Copy unzipped SLX-OS firmware to the USB device under the firmware directory.

- For upgrade from releases through 18s.1.01, the directory structure is /brocade/firmware/<build>.
- For upgrade from 18s.1.02, the directory structure is /slxos/firmware/<build>.

Step 2: Plug the USB device into the switch on which you want to download the firmware.

Step 3: Execute the **usb on** command from the CLI prompt.

Step 4: Execute the following: firmware download usb <full path of the firmware>

TPVM

This section addresses upgrading and downgrading TPVM across releases in this series.

Upgrade and downgrade procedures have changed. Refer to "TPVM package upgrade and downgrade between 18s1.03 and 18s1.01" below.

Package support matrix

Release Name	TPVM package name	TPVM package location		
slxos17s.1.xx	vm-swbd2900-1.0.0-1.i386.deb	<releaseserver>/slxoss/slxos17s.1</releaseserver>		
		.xx/dist/SWBD2900/vm-		
		swbd2900-1.0.0-1.i386.deb		
slxos18s.1.01	vm-swbd2900-1.0.0-1.i386.deb	<releaseserver>/slxoss/slxos18s.1</releaseserver>		
		.01/dist/SWBD2900/vm-		
		swbd2900-1.0.0-1.i386.deb		
slxos18s.1.02	tpvm-2.1.0-1.i386.deb	<releaseserver>/slxoss/slxos18s.1.</releaseserver>		
slxos18s.1.03		xx/dist/SWBD2900/ tpvm-2.1.0-		
		1.i386.deb		

TPVM package between 18s1.02 and 18s1.03

TPVM package between 18s1.02 and 18s1.03 is compatible, if TPVM package was installed before upgrade or downgrade, then after upgrade or downgrade, user can use "tpvm start" to start TPVM.

TPVM package upgrade and downgrade between 18s1.01 and 18s1.03

TPVM Package upgrade from slxos18s.1.01 to slxos18s.1.03

- 1. First, uninstall the existing TPVM package using following SLX-OS CLI # tpvm uninstall
- 2. Upgrade device with slxos18s.1.03 release using firmware download command.
- 3. Remove existing TPVM package located at following path in device
 - SLX-OS VM using linux shell login prompt
 - # rm -rf /tftpboot/SWBD2900/vm-swbd2900-*.deb
 - # rm -rf /mnt/tftpboot/SWBD2900/vm-swbd2900-*.deb
- 4. scp/ftp following TPVM package from release/build server
 - <TPVM release url>/ SWBD2900/ tpvm-2.1.0-1.i386.deb to device following directory on device /tftpboot/SWBD2900/
- 5. Install new TPVM package using following SLX-OS CLI # tpvm install
- 6. Use following SLX-OS CLI to check TPVM install status and start TPVM
 - # show tpvm status

tpvm start

TPVM Package downgrade from slxos18s.1.03 to slxos18s.1.01

- 1. Uninstall the existing TPVM package using following SLX-OS CLI # tpvm uninstall
- 2. Remove existing TPVM package located at following path in device SLX-OS VM using linux shell login prompt rm -rf /tftpboot/SWBD2900/tpvm-*.deb
- 3. Upgrade device with slxos18s.1.01 release using firmware download command.
- 4. Download the SLX-OS firmware
- Install new TPVM package using following SLX-OS CLI # tpvm install
- 6. Use following SLX-OS CLI to check TPVM install status and start TPVM

show tpvm status

tpvm start

Migration path

То	SLX17s.1.00a	SLX17s.1.01	SLX17s.1.02	SLX17s.1.02x	SLX 18s.1.00	SLX 18s.1.01	SLX 18s.1.01x	SLX18s.1.03
From								
SLX 17s.1.00a	NA	FWDL coldboot	FWDL coldboot	FWDL coldboot	*	*	*	*
SLX 17s.1.01	Default – config	NA	FWDL coldboot	Default- config	*	*	*	*
SLX 17s.1.02	Default – config	FWDL coldboot	NA	FWDL coldboot	FWD FWD coldboot coldboot		FWD coldboot	*
SLX 17s.1.02x	Default – config	Default- config	FWDL coldboot	NA	FWD coldboot	FWD coldboot	FWD coldboot	*
185.1.00	*	*	Default - config	Default - config	NA	FWD coldboot	FWD coldboot	*
185.1.01	*	*	Default - config	Default - config	FWD coldboot	NA	FWD coldboot	FWD coldboot
SLX 18s.1.01x	*	*	Default - config	Default - config	FWD FWD coldboot coldboot		NA	FWD coldboot
SLX18s.1.03	*	*	*	*	*	FWD coldboot	FWD coldboot	NA

Default Mode: Recommended upgrade/downgrade migration paths

***NOTE:** For SLX 17s.1.00/a/1, the recommended path is first to install the SLX17s.1.02x release, and then the SLX 18s.1.01 release. For an MCT cluster, it recommended that only one node be upgraded at a time. Wait for the first node to come up completely before upgrading the second node.

То	17s. 1.00	17s. 1.00a	17s. 1.01	17s. 1.02	17s. 1.02x	18s. 1.00	18s. 1.01	18s. 1.02	18s.1.03
From									
17s.1.00	NA	FWDL coldboot	FWDL coldboot	FWDL coldboot	FWDL coldboot	*	*	*	*
17s.1.00a	FWDL- coldboot	NA	FWDL coldboot	FWDL coldboot	FWDL coldboot	*	*	*	*
17s.1.01	Default – config	Default – config	NA	FWDL coldboot	Default- config	*	*	*	*
17s.1.02	Default – config	Default – config	FWDL coldboot	NA	FWDL coldboot	FWD coldboot	FWD coldboot	FWD coldboot	*
17s.1.02x	Default – config	Default – config	Default- config	FWDL coldboot	NA	FWD coldboot	FWD coldboot	FWD coldboot	FWD coldboot
18s.1.00	*	*	*	Default – config	Default - config	NA	FWD coldboot	FWD coldboot	FWD coldboot
185.1.01	*	*	*	Default – config	Default - config	FWD coldboot	NA	FWD coldboot	FWD coldboot
18s.1.02	*	*	*	Default – config	Default - config	FWD coldboot	FWD coldboot	NA	FWD coldboot
18s.1.03	*	*	*	*	Default - config	FWD coldboot	FWD coldboot	FWD coldboot	NA

NPB Mode: Recommended upgrade/downgrade migration paths

***NOTE:** For SLX 17s.1.00/a/1, the recommended path is first to install the SLX17s.1.02x release, and then the SLX 18s.1.02 release.

Recommendations

Upgrading EFA over TPVM from 17s.1.0x to 18s.1.03

Direct upgrade from 17s.1.0x is not supported because of linux version upgrade and TPVM decoupling. Follow the steps below:

- 1. Perform upgrade from 17s.1.0x to 18s.1.01x
- 2. Perform upgrade from 18s.1.01x to 18s.1.03

Upgrading EFA over TPVM from 18s.1.01a/b/c to 18s.1.03 with Ubuntu version 16.04

Do the following to upgrade the EFA over TPVM application.

- Log in to TPVM with the TPVM IP address.
 \$ ssh -l root <TPVM_IP>
- Copy the EFA over TPVM database and logs backup to an external server.
 \$ service efa-server stop
 \$ scp /var/efa/efa.db <server_DB_Location>
 \$ scp /var/log/efa/efa.log <server_log_Location>
- Stop and uninstall TPVM.
 \$ tpvm stop
 \$ tpvm uninstall
- Upgrade the device to 18s.1.03
 <Switch># start-shell
 Entering Linux shell for the user: admin
 [admin@<Switch>]#
 [admin@<Switch>]# su
 Password: <password>
 [root@<Switch>]#
- Remove existing TPVM package located at following path in device SLX-OS VM using linux shell login prompt # rm -rf /tftpboot/SWBD2900/vm-swbd2900-*.deb # rm -rf /mnt/tftpboot/SWBD2900/vm-swbd2900-*.deb
- 6. scp/ftp following TPVM package from release/build server <TPVM release url>/ SWBD2900/ tpvm-2.1.0-1.i386.deb to device following directory on device /tftpboot/SWBD2900/

7. With the device upgraded to 18s.1.03, execute the **efa deploy** command.

During the execution of **efa deploy** command, the below warnings will be seen. These can be ignored, as they are deemed harmless.

/dev/mapper/nbd0p1 not set up by udev: Falling back to direct node creation. /dev/mapper/nbd0p2 not set up by udev: Falling back to direct node creation. /dev/mapper/nbd0p5 not set up by udev: Falling back to direct node creation. \$ efa deploy

8. Log in to TPVM and verify the TPVM version.\$ ssh -l admin <TPVM_IP>

9. Restore the EFA over TPVM database and logs.

\$ sudo su <-- Provide TPVM root password \$ systemctl stop efa-server \$ mv /var/efa/efa.db /tmp/ \$ mv /var/log/efa/efa.log /tmp/ \$ scp <server_EFA_DB_Location> /var/efa/ \$ scp <server_EFA_Log_Location> /var/log/efa/ \$ systemctl start efa-server

10. Verify that EFA over TPVM is running and verify the version.

\$ ps -ef | grep -i efa The EFA over TPVMversion should be 2.0.1.

11. Before executing the **efa deconfigure** command, execute the **efa configure** command at least once following the upgrade.

Limitations and Restrictions

NPB limitations and restrictions

- When switching from NPB to default mode, the user should de-configure the following items and reload the system:
 - TVF domains, NPB policy route-map, and route-map set next-hop-tvf-domain
- When switching from default to NPB mode, the user should revert the system to defaultconfiguration and reload the system.
- To achieve the maximum L2/L3 ACL rules, the ACLs must be applied equally among the following two port groups:
 - o **9140**
 - Port Group 0: eth0/1-36
 - Port Group 1: eth0/37-54
 - o **9240**
 - Port group0: eth 0/1-0/16
 - Port group1: eth 0/17-0/32
- With 4K TVF/route-maps scale, the system takes longer to load on config replay.
- IPv6 GTP packets are not supported for NPB L3 ACL filtering or GTP HTTPS filtering.

NPB Header stripping

- 802.1BR and VN tag are mutually exclusive on an interface.
 - Allowed only in the outer ETH.
- MPLS labels can number up to maximum of 4.
- ERSPAN stripping Type 2 is supported. Type 1 is obsolete.
- Parser block can parse only up to 128 bytes of ingress frame.
- When both 802.1BR/VN-tag and GTP stripping are enabled, only 802.1BR/VN-tag is stripped
- When both 802.1BR/VN-tag and MPLS label stripping are enabled, only MPLS labels are stripped
- IPv6 SIP and DIP are only 64 bits each (upper or lower).
- Needs appropriate profile
- VLAN Delete will always remove the first tag
 - C in C-tag frames
 - C1 in C1+C2 tag frames
 - S in S+C tag frames
- VLAN add can only add C-VLAN tag.
- VLAN add/delete is ignored when GTP strip is enabled.

NPB Flex ACLs

- Up to 8 headers in layer stack can be accessed.
- Each flex word can be up to 4 bytes (with mask).
- Payload bytes (if available) can be 4/8/16/32 bytes.

Onboard packet capture

- Captured frames are rate limited to 256 PPS from hardware.
- Frames are truncated to 256 bytes.
- Auto stop occurs after capturing designated number of frames.
- The PCAP file is deleted automatically upon reboot.
- PCAP is supported only on one port at a time ingress or egress and not both.

Internal loopback

- No frames will go out of the service port, even if it is connected to an external device. Hence it is suggested that the user configure only unused ports as loopback ports.
- A shut/no shut is required on a member port to bring it up, both while attaching it to a portchannel and detaching it from a port-channel.
- It is suggested, not to have sfp present in ports, configured in loopback mode. In case, sfp is present, the sequence to configure port in loopback mode, is to shut it first, configure loopback phy, change speed if required, and then do a no shut.

NPB Grid and load balancing

- NPB Grid relies on LLDP for neighbor detection hence all SLX nodes would send these frames before EVM comes down and disables them.
- 8191 PBF destinations are supported.
- 16383 PBF destination groups are supported. Each destination can have maximum of 64 members.
- 8192 PBF destination load balance groups are supported, with each group having a maximum of 31 members.
- NPB grid encapsulates frames in NSH header for forwarding, hence extra bytes are added at aggregator and removed at the last hop.

Egress packet truncation

- An excess of 10 bytes would be added in addition to requested truncation size. This includes the 4 bytes FCS.
- Maximum of 4 truncation profiles are supported.
- Truncation uses loopback ports internally as specified in a truncation profile, a truncation interface has to be put in loopback mode before using it for a truncation profile.
- Incomplete truncation profiles would cause frames to get dropped and results in no-forwarding. Frame size and truncation interface has to be set for a profile to make it complete.

Datacenter feature limitations and restrictions

TACACS+ Command Authorization

- REST/NETCONF support for TACACS+ authorization is not present
- TACACS+ Command authorization is not supported during config replay
- Exit and Quit command is not supported for authorization

DHCP Relay Source Interface Configuration

Following are the limitations for this feature:

- Consumes unique IP address per node.
- RFC 3527 supports only DHCPv4 relay, so this feature will not be supported for IPv6.

App telemetry

The following points summarize the limitations of the Application Telemetry feature:

- Flex ACLs are used internally to support this feature and are not user configurable.
- ERSPAN encapsulation internally uses one hardware SPAN session out of four available sessions. If all hardware SPAN sessions are already exhausted and the user tries to enable this feature by means of app-telemetry enable command, an error message appears.
- When content of the app-telemetry.pol file is changed, user must remove and reapply file by using rules under the provided configuration command.
- When the switch is reloaded, the app-telemetry.pol file is read and the telemetry ACLs are installed if the configuration has been saved. If the correct telemetry profile is not loaded on the switch and the feature is enabled, an error message is issued.
- Telemetry rules and ACL statistics are not persistent following a system reload.
- Application telemetry feature can support up to 1024 TCAM entries.

MAC rACLs

• MAC rACLs are not supported, as previously documented in the section "Guidelines for rACLs" in the Extreme SLX-OS Security Configuration Guide, 17s.1.02.

ACL

• Egress ACLs, Flow-Based QOS not supported on Ports and Port-Channel/MCT interfaces on SLX 9140, SLX 9240

ARAS

• Host data Collection, Ceclone backup and restore through ipv6 address is not supported.

IGMPv2 snooping

• When upgrade from 17s.100a/17s.100 to 17s.1.02, default startup query interval of 31 seconds is changed to 100sec in the running config for IGMPv2 snooping.

IP Fabric

- ACLs names are case-sensitive on Management interface.
- In rare scenarios, Ping to BGP EVPN installed prefix route host may fail, though the route is present in control plane and in hardware.
- With Scale, traffic convergence takes long time in IP Fabric for symmetric and asymmetric scenarios.
- IPv6 symmetric or asymmetric routing is not supported on SLX9240 platforms when used as Leaf nodes.
- Principal election is not pre-emptive in node join scenario.
- nsh encapsulation not supported over IPv6 neighbor.
- BFD session does not break if there is alternate path.
- Host route feature is not supported for IPv6 traffic (/128).
- MCT cluster formation takes some time in forming the cluster in scale scenarios.
- Might notice unnecessary GARP(for host address) packets seen in the network.
- Range command is not supported for BD
- BFD sessions may flap when the BFD interval is configured less than 300 msec.
- Customer tagged frames cannot be passed over VXLAN tunnel.
- Multiple flapping of CCEP ports from each nodes one after other might result in no DF elected for some VLANs. Reboot the node to recover
- Under certain circumstances when Layer 3 protocols like OSPF are run over MCT, the session might get stuck. Workaround is to reboot the switches or clear the arp suppression cache
- DF may not be elected on one of the MCT peers after upgrade. Work around is to do MCT no deploy/deploy

Layer 2

• In RSTP, when native vlan is shut, it affects convergence of vlan traffic when interop with cisco devices.

Layer3

- VRRP
 - "show vrrp summary" and "show ipv6 vrrp summary" will display all sessions in default vrf.
- BGP
 - Extended community filters support is not available.

Muticast

• Frame corruption might occur while performing high rate of replication with traffic flowing at line rate

NetConf

- Netconf configuration for startup-config datastore is not supported
- Configuring multiple commands in a single request is supported for
- configuration/deletion of vlan, switch port, trunk port, VE and rules under IP ACL only.
- Range is not supported.
- Maximum 16 sessions supported.

Overlay Transit Service

• Configuration download to startup and reload with 256 overlay class map each having 1024 rules takes 1 hours 40 minutes approximately

Platform

- DIAG:
 - Diag related commands work only under /offline_diag directory.
 - Diag portloopbacktest with exeternal loopback plug is not supported on SLX9240 platform.

Port Mirroring (SPAN)

- Only Flow based SPAN supported for port channel. Member ports of port channel can be enabled with port SPAN.
- Deny rules in service ACL is pass through in Flow based QoS. Only permit rules with SPAN action will result in Flow based mirroring
- In class map if SPAN action coexists with QOS action (e.g. DSCP marking which results in frame editing), original packet will be mirrored and not reflect the frame editing done as per the QOS action.

Port-Security:

• OUI Mac Addresses are not supported.

PTP

- Rest API operational-state GET will not correctly display the output of the following PTP "show" commands:
 - show ptp clock foreign-masters record
 - show ptp corrections
- No REST API URL for "show ptp port-interface Ethernet|port-channel"

QOS

- FB QoS Cos Marking, DSCP Marking, Sflow, SPAN
 - SPAN with L2 ACL in egress direction (SLX 9240)
 - Flow-based QoS is not supported in egress direction
- QoS WRED

- Byte counter is not available as part of show qos red statistics CLI for port-channel
- QoS Pause/PFC/Buffer Management
 - PFC and Flow-control statistics are not supported due to hardware limitation
 - Max allowed tx buffer in SLX9140 is 3000 and not 8000.

REST API

- REST configuration for startup-config datastore is not supported.
- Only one command can be configured with one REST request. Configuring multiple commands in a single request is not supported.
- Pagination and Range is not supported.
- Maximum 30 sessions are supported.

REST API/NetConf Operational-state calls

- HTTP Status throw message "501 Not Implemented" while trying to get operational state for top resource (rest/operational-state) using REST API, User can query operational-state at feature level.
- Operational-state calls not supported for Overlay GW and Visibility Services features.
- Yang files for Unsupported features like MPLS, ISIS are available and operational-state call returns empty value or "404 not found "
- Operational-state calls for supported feature mat not be accurate and may return "404 not found" or empty value, not advisable to use it

Security

- Login authentication service (aaa authentication login cli)
 - With "local" option specified as secondary authentication service, local authentication will be tried only when the primary authentication service (TACACS+/RADIUS/LDAP) is either unreachable or not available.
 - When login authentication configuration is modified, the user sessions are not logged out. All connected user sessions can be explicitly logged out using "clear sessions" CLI.
- ACLs are not supported for egress traffic flows on management interfaces.
- Configuring TACACS+ or RADIUS without a key is not supported. If no key is configured, the switch uses a default key of "sharedsecret". If the specific vrf is not mentioned, mgmt.-vrf will be taken as default.
- There is a possibility that locked user accounts will get unlocked after a reboot if the runningconfig (before reboot) is different from startup-config of user accounts.
- Encrypted text (taken from running-config of any user account password with encryption turned on) should not be used as input for clear-text password for the same user. This may result in login failure of the user subsequently.

sFlow

- If Port based and flow based sflow is enabled on an interface, Port based sflow takes effect
- Flow-based Sflow is not supported on port-channel and its member ports
- Port-based Sflow not supported on port-channel but supported on member ports
- There will be no counter samples when only flow based sampling is enabled.

• When multiple sampling rates are applied on an interface through multiple class-maps, the lowest sample-rate will take the effect.

SNMP

- Warning messages while loading MIBs
- Certain MIB browsers may show warning messages while loading MIBs when dependent MIB is already not loaded. For example, in RFC 3289 MIB, DIFFSERV-MIB module has dependency on INTEGRATED-SERVICES-MIB module which is defined in the same RFC. However, DIFFSERV-MIB occurs first in the file and hence may throw a warning since INTEGRATED-SERVICES-MIB is not loaded yet. It should not be an issue as long as the MIB objects show up in the MIB browser. To avoid the warning, place the dependent MIB module file in the same folder with name as <MIB MODULE>.mib or <MIB MODULE>.my (ex: INTEGRATED-SERVICES-MIB.mib) ..."

Telemetry Streaming

• Running gRPC server on non-default port not supported.

Traffic

- On the SLX 9140 and SLX 9240 switches, traffic destined to 128.0.0.0/16 block is dropped.
- Hash collisions may be observed with higher scale in Route, ARP/Mac and/or Tunnel tables resulting in entries not getting programmed.

TPVM

- Upgrade and downgrade procedures have changed. Refer to "TPVM" in the "Software Upgrade and Downgrade" section.
- The **tpvm password** command is not supported. Unexpected behavior can result.

Defects

TSBs—Critical issues to consider prior to installing this release

Technical Support Bulletins (TSBs) provide detailed information about high priority defects or issues present in a release. The following sections specify all current TSBs that have been identified as being a risk to or resolved with this specific release. Please review carefully and refer to the complete TSB for relevant issues prior to migrating to this version of code. Refer to "Contacting Extreme Technical Support" at the beginning of this document."

Known Issues for SLX OS 18s.1.01c

This section lists software defects with Critical, High, and Medium Technical Severity open as of August 2019 in SLX-OS 18s.1.01c

NOTE: Parent Defect ID is the customer found Defect ID. The Issue ID is the tracking number uniquely used to check in the fix for each major release.

Parent Defect ID:	SLX-OS-18460	Issue ID:	SLX-OS-18460
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 17s.1.02	Technology:	IP Addressing
Symptom:	REST API with PUT request results in "404 Not Found"		
Condition:	When URI contains elements from multiple yang modules (for example common- def,brocade-interface, intf-loopback and then again brocade-interface) in below example: <u>http://<device-< u=""> ip>/rest/config/running/c <u>ommon-def:routing-</u> <u>system/brocade-</u> interface:interface/intf- loopback:loopback/100/b rocade- interface:vrf/forwarding</device-<></u>		

Parent Defect ID:	SLX-OS-18476	Issue ID:	SLX-OS-18476
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Security
Reported in Release:	SLX-OS 17s.1.02	Technology:	ACLs - Access Control Lists
Symptom:	With large number of rules in IPv4 and IPv6 ACLs, boot up of switch could take up to two hours.		
Condition:	Seen in scenarios where there are large number of rules configured in IPv4 and IPv6 ACL's.		

Parent Defect ID:	SLX-OS-18525	Issue ID:	SLX-OS-18525
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Security
Reported in Release:	SLX-OS 17s.1.02	Technology:	ACLs - Access Control Lists
Symptom:	Security violation RASLog message is not displayed.		
Condition:	On Management port, when ACL applied is changed from ACL with permit rule to an ACL with deny rule.		

Parent Defect ID:	SLX-OS-18555	Issue ID:	SLX-OS-18555
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 17s.1.02	Technology:	SNMP - Simple Network
			Management Protocol
Symptom:	Security violation RASLog		
	message is not displayed.		
Condition:	IPv6 ACL with deny rule is		
	configured on the		
	management interface.		

Parent Defect ID:	SLX-OS-18559	Issue ID:	SLX-OS-18559
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Security
Reported in Release:	SLX-OS 17s.1.02	Technology:	RADIUS
Symptom:	After reload, the user role mapped with RADIUS of the existing users can't be modified.		
Condition:	Modifying user role is not allowed after switch reload.		
Workaround:	Remove user and reconfigure.		

Parent Defect ID:	SLX-OS-18564	Issue ID:	SLX-OS-18564
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 17s.1.02	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Mac Addresses are not learnt as expected on MCT CCEP/LAG interface.		
Condition:	With large scale configuration and after cluster reload, Mac learning issue observed upon stp disable/enable of an MCT Client interface.		

Parent Defect ID:	SLX-OS-18687	Issue ID:	SLX-OS-18687
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network
			Layer
Reported in Release:	SLX-OS 17s.1.02	Technology:	DHCP - Dynamic Host
			Configuration Protocol
Symptom:	DHCP client packets are		
	dropped by relay agent.		
Condition:	When local subnet		
	broadcast address is		
	configured as relay		
	address.		
Workaround:	No		

Parent Defect ID:	SLX-OS-18726	Issue ID:	SLX-OS-18726
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 17s.1.02	Technology:	BGP4 - IPv4 Border Gateway Protocol
Symptom:	After clear ip bgp neighbor all command is executed, BGP routing table will be empty until user executes the same command after some time.		
Condition:	When Route-maps, Prefix-list or other policies are changed, if user executes clear command before the filter update delay is expired (default 10s), all routes are cleared and not updated until the filter change update delay is expired.		
Workaround:	Use clear ip bgp neighbor all command one more time after the filter change notification delay is complete. The default value for filter change update delay is 10 seconds		

Parent Defect ID:	SLX-OS-18800	Issue ID:	SLX-OS-18800
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	IP Multicast
Reported in Release:	SLX-OS 17s.1.02	Technology:	IGMP - Internet Group
			Management Protocol
Symptom:	Upgrading SLX OS from older releases(slxos17s.1.00 or prior) will have Multicast Vlan IGMP and MLD startup query interval value set to 100.		
Condition:	During upgrade the old configuration is restored and the startup query interval value is set to 100.		
Workaround:	None.		

Parent Defect ID:	SLX-OS-18808	Issue ID:	SLX-OS-18808
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 17s.1.02	Technology:	Hardware Monitoring
Symptom:	Any port in auto detect mode and the optic is not at default speed, the port will be admin down.		
Condition:	Downgrade from 17s.1.01/02 to 17s.1.00/00a		

Parent Defect ID:	SLX-OS-20748	Issue ID:	SLX-OS-20748
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 17s.1.02	Technology:	VXLAN - Virtual Extensible
			LAN
Symptom:	IPv6 Flow Based ACLs		
	applied under Overlay		
	Gateway		
	services(VXLAN), may not		
	filter traffic.		
Condition:	IPv6 acl with mask		
	greater than 64 for SIP.		
Workaround:	Use "IP address/mask"		
	format with mask less		
	than or equal to 64.		

Parent Defect ID:	SLX-OS-21677	Issue ID:	SLX-OS-21677
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network
			Layer
Reported in Release:	SLX-OS 17s.1.02	Technology:	DHCP - Dynamic Host
			Configuration Protocol
Symptom:	DHCP client on MCT-CCEP		
	ports, may receive		
	inconsistent (option-82		
	tagged and untagged)		
	OFFER/ACK packets.		
Condition:	DHCP Relay with Option		
	82 with MCT		
	configuration		

Parent Defect ID:	SLX-OS-25259	Issue ID:	SLX-OS-25259
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.00	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	In stress scenario, few MACs can be seen as EVPN though they originated on the same node.		
Condition:	Due to shut on LAG interfaces, in show mac- address-table, few MACs are shown as EVPN		

Parent Defect ID:	SLX-OS-25731	Issue ID:	SLX-OS-25731
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 17s.1.02b	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	MCT daemon termination		
	followed by switch reload		
Condition:	MCT daemon terminates		
	when client server sends		
	the LACP oper key as 0.		
Workaround:	Remove 'esi auto lacp'		
	config		

Parent Defect ID:	SLX-OS-26264	Issue ID:	SLX-OS-26264
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 18s.1.00	Technology:	Static Routing (IPv4)
Symptom:	Static Anycast Gateway warning message is not printing Virtual interface Id in raslog message in case of mismatch of Virtual IP configured across leaf nodes.		
Condition:	IP Fabric, Static Anycast Gateway IP configure with different Virtual IP across leaf nodes and configure Vlan entries manual mapping under overlay gateway.		

Parent Defect ID:	SLX-OS-26265	Issue ID:	SLX-OS-26265
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network
			Layer
Reported in Release:	SLX-OS 18s.1.00	Technology:	Static Routing (IPv4)
Symptom:	Static Anycast Gateway warning message is not notified to user in case of different Virtual Mac mapped to same Virtual IP.		
Condition:	IP Fabric, Static Anycast Gateway configured with different Virtual MAC mapped to same Virtual IP across leaf nodes.		

Parent Defect ID:	SLX-OS-26327	Issue ID:	SLX-OS-26327
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 18s.1.01	Technology:	Multi-VRF
Symptom:	In EVPN Type-5 Route import into multiple vrf table use-case. while deleting import RT on one of the vrf, cleanup TYPE- 5 EVPN routes happens on all vrf table.		
Condition:	Importing EVPN Type-5 L3 Prefix Route into more than one VRF table.		
Workaround:	when Route Target is deleted under vrf configuration, User should trigger the clear command "clear bgp evpn neighbor <peer-ip> soft in"</peer-ip>		

Parent Defect ID:	SLX-OS-26340	Issue ID:	SLX-OS-26340
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18s.1.01	Technology:	CLI - Command Line Interface
Symptom:	Radius local-auth-fallback configuration may not reflect correctly in running config.		
Condition:	When AAA authentication configuration is modified from "tacacs+ local-auth- fallback" to "radius local- auth-fallback" in one step, the "local-auth- fallback" option may not reflect in the running config.		
Workaround:	Delete AAA authentication configuration and then re-configure it.		

Parent Defect ID:	SLX-OS-26343	Issue ID:	SLX-OS-26343
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01	Technology:	VXLAN - Virtual Extensible LAN
Symptom:	NSM may crash (assert) when MCT nodes are coming up with 1k tunnels.		
Condition:	In scale scenario, tunnel creation failure may lead to assert in NSM.		
Workaround:			

Parent Defect ID:	SLX-OS-26804	Issue ID:	SLX-OS-26804
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	CCEP receivers receive double multicast traffic when server is CEP and receivers are on CCEP		
Condition:	Issue seen intermittently on reload		
Workaround:	'shutdown/no shutdown' of the MCT Client followed by 'clear ip igmp group' on both of the MCT cluster nodes.		

Parent Defect ID:	SLX-OS-26836	Issue ID:	SLX-OS-26836
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18s.1.01	Technology:	CLI - Command Line Interface
Symptom:	"Security Violation: Login failure - Public key Authentication failed" may appear in audit log although the login is successful.		
Condition:	When logged in to the device via SSH or Netconf, "Security Violation: Login failure - Public key Authentication failed" may appear in the audit log, followed by "Successful login" message.		
Workaround:	Ignore the erroneous "Login failure" message in the audit log.		

Parent Defect ID:	SLX-OS-27228	Issue ID:	SLX-OS-27228
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 18s.1.00	Technology:	OSPF - IPv4 Open Shortest Path First
Symptom:	OSPFv2 incorrectly advertises multiple external summary LSAs when overlapping external address ranges are present		
Condition:	Issue will happen only when overlapping external summary ranges are configured		

Parent Defect ID:	SLX-OS-27867	Issue ID:	SLX-OS-27867
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	Redundant traffic is sent		
	from both MCT peers		
Condition:	no deploy / deploy the		
	cluster		

Parent Defect ID:	SLX-OS-27868	Issue ID:	SLX-OS-27868
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	After "clear ip bgp neighbor all" on MCT cluster, traffic drop observed while forwarding multicast traffic		
Condition:	Execution of clear ip bgp neighbor all		

Parent Defect ID:	SLX-OS-27963	Issue ID:	SLX-OS-27963
Severity:	S4 - Low		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01	Technology:	VLAN - Virtual LAN
Symptom:	SEX-OS 185.1.01SFP boundary checkwarning messages mayappear for current, txpower and rx power, onthe console and in thesyslog when physicalloopback is enabled forphysical interfaces.Ex:QSFP28 RX power forport <slot port="">, is belowlow boundary(High=2188,Low=40). Current value is0 uW.QSFP28 TX power forport <slot port="">, is belowlow boundary(High=3162,Low=100). Current valueis 0 uW.QSFP28 Current for port<slot port="">, is below lowboundary(High=13,Low=3). Current value is 0mA.</slot></slot></slot>		VLAN - VIItuai LAN
Condition:	When physical loopback is enabled via "loopback phy" command for SFP ports, current, tx power and rx power related boundary check warning messages may appear on the console and in the syslog.		
Workaround:	Ignore the warning messages or disable the physical loopback after debugging/verification tests are completed.		

Parent Defect ID:	SLX-OS-28090	Issue ID:	SLX-OS-28090
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 18s.1.00	Technology:	GTP - GPRS Tunneling Protocol
Symptom:	Flow header matching option for payload is missing in User Defined ACL for IPv6_GTP_IPv4_L4_Paylo ad packets.		
Condition:	For IPv6 underlay in GTP, only the following frame formats may be matched in ACL: ETH-IPv6-UDP-GTP-IPv4- payload16 ETH-IPv6-UDP-GTP- payload32		

Parent Defect ID:	SLX-OS-28806	Issue ID:	SLX-OS-28806
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01	Technology:	MCT - Multi-Chassis Trunking
Symptom:	Additional traffic (known traffic) is forwarded to CCEP client		
Condition:	no deploy / deploy of CCEP client		

Parent Defect ID:	SLX-OS-28808	Issue ID:	SLX-OS-28808
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	static groups configured on a vlan shows the physical ports but not the CCEP PO ports		
Condition:	sh ip igmp groups for static groups		

Parent Defect ID:	SLX-OS-29313	Issue ID:	SLX-OS-29313
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	When MCT node is reloaded the Multicast traffic is stabilized/forwarded after few seconds on the MCT node that is up, but after some time, some groups have the member ports removed from the group table on the currently up MCT node		
Condition:	MCT node is reloaded .in scaled configuration.		

Parent Defect ID:	SLX-OS-18505	Issue ID:	SLX-OS-30175
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 17s.1.02	Technology:	OSPF - IPv4 Open Shortest Path First
Symptom:	User might see an error message: "%%Error: OSPF encountered an internal error" when issuing the command "clear ip ospf nei <neighbor address="">"</neighbor>		
Condition:	When clear ip ospf neighbor with an unknown IP address.		
Workaround:	clear ip ospf neighbor with a valid neighbor IP address.		

Parent Defect ID:	SLX-OS-28920	Issue ID:	SLX-OS-31497
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 18r.1.00	Technology:	Hardware Monitoring
Symptom:	Fan failure will not be displayed in 'show system monitor'.		
Condition:	Fan monitor state in 'show system monitor' will not change from healthy to marginal in case of any fan failure.		

Parent Defect ID:	SLX-OS-25948	Issue ID:	SLX-OS-31616
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18r.1.00a	Technology:	Configuration
			Fundamentals
Symptom:	Could not configure MLS and MQC configurations same time in PO interfaces		
Condition:	Fixed issue		

Parent Defect ID:	SLX-OS-35976	Issue ID:	SLX-OS-35976
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Other
Reported in Release:	SLX-OS 17s.1.02	Technology:	Other
Symptom:	IPv6 gateway address is		
	not reachable via Ping on		
	Management interface.		
Condition:	Performing shut and no		
	shut after 30 seconds on		
	Management port.		
Workaround:	Initiate a ping to		
	host/gateway from		
	switch or remove/re-add		
	the IPv6 address on the		
	Management port. Switch		
	reboot is another option.		

Parent Defect ID:	SLX-OS-34773	Issue ID:	SLX-OS-37172
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 17s.1.02	Technology:	IPv6 Addressing
Symptom:	IPv6 nd address may not get suppressed by using this command.		
Condition:	The issue is seen only when ipv6 nd address <address> suppress command is used.</address>		

Parent Defect ID:	SLX-OS-28440	Issue ID:	SLX-OS-38453
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 18r.2.00	Technology:	Hardware Monitoring
Symptom:	The 'show interface ethernet x/y' might not show actual FEC mode configured on the interface.		
Condition:	Starting this release, we are supporting more than one FEC modes (RS-FEC and FC-FEC). We need to introduce an infrastructure to read and display the current FEC mode from the ASIC registers.		
Workaround:	N/A		

Parent Defect ID:	SLX-OS-39025	Issue ID:	SLX-OS-39025
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18s.1.02	Technology:	Other
Symptom:	top command in linux shell doesn't work.		
Condition:	issue seen on linux shell.		
Workaround:	slxcli cli commands for knowing the process status works fine.		

Parent Defect ID:	SLX-OS-40295	Issue ID:	SLX-OS-40295
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 18s.1.02	Technology:	Telemetry
Symptom:	fields in default LLDP profile		
Condition:	sync attribute displayed after LLDP profile reset.		

Parent Defect ID:	SLX-OS-41160	Issue ID:	SLX-OS-41160
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 18s.1.02	Technology:	Telemetry
Symptom:	LLDP sync not occuring when configured on multiple collector(s)		
Condition:	If multiple collectors are configured with default LLDP profile, LLDP sync occurs only on the first one which gets activated		

Parent Defect ID:	SLX-OS-41933	Issue ID:	SLX-OS-41933
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Other
Reported in Release:	SLX-OS 18s.1.03	Technology:	Other
Symptom:	When user executes "clear counters all" on a system, statistics for Policy Based Forwarding traffic are not cleared.		
Condition:	Statistics for Policy Based Forwarding traffic are not cleared on execution of "clear counters all"		
Workaround:	The workaround would be to explicitly clear the statistics using the command "clear counters pbf-destination"		

Parent Defect ID:	SLX-OS-42731	Issue ID:	SLX-OS-42731
Severity:	S1 - Critical		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18s.1.03	Technology:	LLDP - Link Layer
			Discovery Protocol
Symptom:	Policy statistics will show		
	incorrect values for		
	Egress Port.		
Condition:	LLDP enabled on egress		
	port with policy		
	monitoring with forward		
	rule.		

Parent Defect ID:	SLX-OS-42839	Issue ID:	SLX-OS-42839
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 18s.1.01a	Technology:	Sysmon
Symptom:	Unexpected reload.		
Condition:	Execution of unsupported CLI "show maps dash"		
Workaround:	Do not use Unsupported CLI.		

Parent Defect ID:	SLX-OS-42920	Issue ID:	SLX-OS-42920
Severity:	S2 – High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.03	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	After reloading MCT nodes , dynamically created vlan mapping is not deleted after mac aging.		
Condition:	Reloading MCT both nodes.		
Workaround:	Add vlans statically and delete them.		

Parent Defect ID:	SLX-OS-42980	Issue ID:	SLX-OS-42980
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 18s.1.03	Technology:	RAS - Reliability,
			Availability, and
			Serviceability
Symptom:	Audit log is not captured		
	due to confd limitation.		
Condition:	When vlan is configured		
	via NETCONF and REST		
	commands		
Workaround:	Audit log will be captured		
	if configured via CLI.		

Parent Defect ID:	SLX-OS-43110	Issue ID:	SLX-OS-43110
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Security
Reported in Release:	SLX-OS 18s.1.03	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	Rest RPC operation will fail		
Condition:	When AAA Authorization command has been enabled		
Workaround:	disable AAA authorization command		

Parent Defect ID:	SLX-OS-43067	Issue ID:	SLX-OS-43164
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 18r.1.00cb	Technology:	IPv6 Addressing
Symptom:	IPv6 traffic drop is seen periodically		
Condition:	In a IP Fabric asymmetric traffic forwarding scenario, after a particular leaf node is reloaded, one of the remote leaf nodes sends a ND for the IPv6 Host who became unreachable and marks that host as "stale ND" in the cache and continuously refreshes. This results in IPv6 traffic drops towards that host.		

Parent Defect ID:	SLX-OS-43186	Issue ID:	SLX-OS-43186
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Security
Reported in Release:	SLX-OS 18s.1.03	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	Username is updated as admin instead of logged in user in auditlog		
Condition:	When authentication method selected is - radius/tacacs+/ldap and the logged in external user is with admin role		

Parent Defect ID:	SLX-OS-43218	Issue ID:	SLX-OS-43218
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18s.1.03	Technology:	SNMP - Simple Network
			Management Protocol
Symptom:	IPv4 traps sent to an in-		
	band SNMP host, are sent		
	through OOB IP, when		
	the host is configured		
	under mgmt-vrf.		
Condition:	Seen when SNMP trap		
	host connected to in-		
	band port is in mgmt-vrf.		
Workaround:	Workaround is to shut		
	the OOB mgmt interface		
	or use default-vrf/user-vrf		
	for the in-band SNMP		
	host.		

Parent Defect ID:	SLX-OS-43220	Issue ID:	SLX-OS-43220
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Other
Reported in Release:	SLX-OS 18s.1.03	Technology:	Other
Symptom:	Traffic not getting		
	forwarded with		
	truncation enabled.		
Condition:	When truncation is		
	enabled, but the		
	truncation profile is		
	incomplete, then traffic		
	will not be forwarded and		
	get dropped. A Profile is		
	said to be incomplete		
	when either size or		
	outgoing interface is not		
	specified.		
Workaround:	Providing a complete		
	truncation profile		
	specifying it fully.		

Parent Defect ID:	SLX-OS-43230	Issue ID:	SLX-OS-43230
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Security
Reported in Release:	SLX-OS 18s.1.03	Technology:	TACACS & TACACS+
Symptom:	Command accounted on		
	TACACS+ server is		
	incorrect.		
Condition:	When AAA command		
	accounting is enabled and		
	copy command is issued		

Parent Defect ID:	SLX-OS-43231	Issue ID:	SLX-OS-43231
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Security
Reported in Release:	SLX-OS 18s.1.03	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	IP in audit log is shown as in-band interface IP		
Condition:	When authentication method selected is - Radius/LDAP/TACACS+ and the inband interface is configured on mgmt vrf		

Parent Defect ID:	SLX-OS-43263	Issue ID:	SLX-OS-43263
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18s.1.03	Technology:	Other
Symptom:	Due to authkey being stored encrypted in running config, the encryption strings turns out to be more than max . This causes the error during replay.		
Condition:	configuration of NTP authentication key which is more than 15 characters		
Workaround:	Please configure NTP authentication key of less than 15 characters length.		

Parent Defect ID:	SLX-OS-43296	Issue ID:	SLX-OS-43296
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18s.1.03	Technology:	Software Installation & Upgrade
Symptom:	During 18s1.03 to 18s1.01 downgrade, if TPVM is not upgrade/downgrade as suggested in release note, user may see misleading TPVM install error message		
Condition:	TPVM upgrade/downgrade which does not follow suggested steps in release note		
Workaround:	Please follow the TPVM upgrade/downgrade steps as suggested in release note to avoid these error message.		

Parent Defect ID:	SLX-OS-43406	Issue ID:	SLX-OS-43406
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.03	Technology:	LAG - Link Aggregation Group
Symptom:	There is a possibility of NSM crashing during firmware upgrade.		
Condition:	Issue can happen during firmware upgrade and when port-channels are present in the system.		
Workaround:			

Closed with or without code changes in SLX-OS 18s.1.01c

This section lists software defects with Critical, High, and Medium Technical Severity closed with or without a code change as of August, 2019.

NOTE: Parent Defect ID is the customer found Defect ID. The Issue ID is the tracking number uniquely used to check in the fix for each major release.

Parent Defect ID:	SLX-OS-18504	Issue ID:	SLX-OS-18504
Reason Code:	Not Reproducible	Severity:	S2 - High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network
			Layer
Reported in Release:	SLX-OS 17s.1.02	Technology:	OSPF - IPv4 Open
			Shortest Path First
Symptom:	OSPF neighbor-ship will not formed after changing authentication wait time to 0		
Condition:	Un-configure authentication key after changing the waiting interval to 0		
Workaround:	Configure authentication waiting interval back to 300		

Parent Defect ID:	SLX-OS-22222	Issue ID:	SLX-OS-22222
Reason Code:	Already Implemented	Severity:	S2 - High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network
			Layer
Reported in Release:	SLX-OS 17s.1.02	Technology:	BGP4 - IPv4 Border
			Gateway Protocol
Symptom:	Provisioned Global MTU not applied on Port- channel interface.		
Condition:	Global MTU configuration applied on port-channel interface.		
Workaround:	Apply MTU configuration on port-channel interface locally		

Parent Defect ID:	SLX-OS-24359	Issue ID:	SLX-OS-24359
Reason Code:	Not Reproducible	Severity:	S2 - High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network
			Layer
Reported in Release:	SLX-OS 17s.1.02	Technology:	BGP4 - IPv4 Border
			Gateway Protocol
Symptom:	"show bgp evpn routes		
	rd" does not display all		
	IPV4 routes advertised.		
Condition:	"show bgp evpn routes		
	rd" does not display all		
	IPV4 routes advertised.		
Workaround:	Use alternate CLI - "show		
	bgp evpn routes type		
	ipv4-prefix brief"		

Parent Defect ID:	SLX-OS-24780	Issue ID:	SLX-OS-24780
Reason Code:	Design Limitation	Severity:	S2 - High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 17s.1.02	Technology:	MCT - Multi-Chassis Trunking
Symptom:	MCT (Multi-Chassis Trunking) cluster may reset with data traffic loss.		
Condition:	On toggle of MCT client interface with "shutdown" and "no shutdown" commands under stressed scaled configuration.		

Parent Defect ID:	SLX-OS-26310	Issue ID:	SLX-OS-26310
Reason Code:	Not Reproducible	Severity:	S2 - High
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 18s.1.01	Technology:	Multi-VRF
Symptom:	Changing the VRF from one format to another format- resulted in RD configured as False in 'show bgp evpn I3vni vrf' command		
Condition:	Same as above		
Workaround:	Remove vrf instance and reconfigure.		

Parent Defect ID:	SLX-OS-27528	Issue ID:	SLX-OS-27528
Reason Code:	Not a Software Defect	Severity:	S3 - Medium
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network
			Layer
Reported in Release:	SLX-OS 18s.1.01	Technology:	BGP4 - IPv4 Border
			Gateway Protocol
Symptom:	User will observe that		
	BGP peer-group cannot		
	be used to de-activate a		
	neighbors under EVPN		
	address-family		
Condition:	when user is using BGP		
	EVPN with peer group		
	configuration, user might		
	observe this behavior.		
Workaround:	Individual neighor can be		
	deactivated under		
	address-family ipv4		
	unicast.		

Parent Defect ID:	SLX-OS-39023	Issue ID:	SLX-OS-39023
Reason Code:	Insufficient Information	Severity:	S2 - High
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 18s.1.02	Technology:	Telemetry
Symptom:	streaming data "totalFreeMemory" doesn't include the cache and buffer(although they are presented separately). Here the totalFreeMemory should be totalFreeMemory + cachedMemory + buffers = 4350852 + 1645532 + 2072 = 5998456		
Condition:	"Total Free" in "show process memory summary" included buffer and cache		

Parent Defect ID:	SLX-OS-39065	Issue ID:	SLX-OS-39417
Reason Code:	Insufficient Information	Severity:	S2 - High
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01a	Technology:	Other
Symptom:	Mac authentication not happening for untagged native vlan after reload or interface shut/no-shut.		
Condition:	system is reloaded with native vlan and tagged vlan present on port- channel. also issue is seen with shut/no shut is done on port-channel interface.		
Workaround:	disable/enable native vlan to make it work.		

Parent Defect ID:	SLX-OS-39720	Issue ID:	SLX-OS-39720
Reason Code:	Will Not Fix	Severity:	S3 - Medium
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 18s.1.02	Technology:	Telemetry
Symptom:	default fields in a		
	telemetry profile		
Condition:	None of default fields		
	should be allowed to be		
	changed by the user. This		
	is the expected behavior		
	of fields present in		
	default profile.		

Parent Defect ID:	SLX-OS-40495	Issue ID:	SLX-OS-40495
Reason Code:	Already Implemented	Severity:	S2 - High
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18s.1.02	Technology:	Other
Symptom:	 "SLX# tpvm password" cli hangs and prints an error as below:- SLX# tpvm password root password: ******** re-enter root password: ******** [6884.579293] udevd[1503]: failed to execute '/usr/sbin/dmsetup' '/usr/sbin/dmsetup udevflags 4258371': No such file or directory [6884.593391] 		
	udevd[1506]: failed to execute '/usr/sbin/dmsetup' '/usr/sbin/dmsetup udevcomplete 4258371': No such file or directory		
Condition:	TPVM is installed but not running. The user executes the cli "tpvm password" to set the password of the TPVM "root" user account.		

Parent Defect ID:	SLX-OS-40749	Issue ID:	SLX-OS-40749
Reason Code:	Feature/Function Not	Severity:	S2 – High
	Supported		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01b	Technology:	VLAN - Virtual LAN
Symptom:	switch may undergo unexpected reload under		
	rare conditions		
Condition:	EPT is enabled with reauthentication timer configured		
Workaround:	Do not configure re- authentication timer with EPT		

Closed with or without code changes in SLX-OS 18s.1.03

Parent Defect ID:	SLX-OS-18587	Issue ID:	SLX-OS-18587
Severity:	S4 - Low		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network
			Layer
Reported in Release:	SLX-OS 17s.1.02	Technology:	OSPF - IPv4 Open
			Shortest Path First
Symptom:	ASBR status is printed No,		
	when a switch is ABR in		
	NSSR area.		
Condition:	When switch is		
	configured ABR in NSSA		
	area, ASBR status still		
	shows No.		
Workaround:	This is show command		
	print issue and no impact		
	on functionality. As per		
	functionality the switch		
	does act as ASBR		

Parent Defect ID:	SLX-OS-18629	Issue ID:	SLX-OS-18629
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 17s.1.02	Technology:	Configuration
			Fundamentals
Symptom:	When configuring timestamp on a range of interfaces, only the first interface in the range is being configured.		
Condition:	Configure timestamp configuration on a range of interfaces		
Workaround:	Configure timestamp on an individual port basis.		

Parent Defect ID:	SLX-OS-19337	Issue ID:	SLX-OS-19337
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 17s.1.00a	Technology:	Hardware Monitoring
Symptom:	The status light on the switch blinks from Amber to Green even though one FAN is missing.		
Condition:	A missing fan causes the switch status LED to blink.		

Parent Defect ID:	SLX-OS-21044	Issue ID:	SLX-OS-21044
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 17s.1.02	Technology:	Hardware Monitoring
Symptom:	10GE SFP+ optics used		
	with Mellanox QSA		
	Adapter may not link up.		
Condition:	When 10GE SFP+ optic is		
	used with Mellanox QSA		
	Adapter the port may not		
	link up and "Unqualified		
	SFP transceiver" logs		
	would be reported on the		
	console.		

Parent Defect ID:	SLX-OS-21059	Issue ID:	SLX-OS-21059
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 17s.1.02	Technology:	Telemetry
Symptom:	Random link down issues noticed with 100G optics		
Condition:	Even after configuring both Tx and Rx link fault signaling to off, random link (remaining) down issues noticed with 100G optics.		
Workaround:	Configure link fault signaling "rx off tx on" as a workaround		

Parent Defect ID:	SLX-OS-24366	Issue ID:	SLX-OS-24366
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 17s.1.02	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	"Show mac-address-table		
	interface" doesn't display		
	learnt Mac-Address on		
	Logical interface.		
Condition:	Execute ?clear mac-		
	address-table dynamic		
	logical-interface <name>?</name>		
	command instead of		
	"clear mac-address-table		
	dynamic".		
Workaround:	Execute `clear mac-		
	address-table dynamic		
	bridge-domain <id>?</id>		

Parent Defect ID:	SLX-OS-24793	Issue ID:	SLX-OS-24793
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 17s.1.02	Technology:	OSPFv3 - IPv6 Open Shortest Path First
Symptom:	256 OSPFv3 interfaces are supported on default VRF and in non-default 1000+ OSPFv3 interfaces can be configured.		
Condition:	OSPFv3 interface scale above 256 interfaces in default VRF.		

Parent Defect ID:	SLX-OS-26258	Issue ID:	SLX-OS-26258
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18s.1.00	Technology:	Software Installation & Upgrade
Symptom:	Default high threshold value for "Current mA" field shown in the output of CLI command "show default threshold" is incorrect.		
Condition:	For SFP type 40GSRINT, the CLI output of "show defaults threshold sfp type 40GSRINT" displays incorrect high threshold for the "Current mA" field.		

Parent Defect ID:	SLX-OS-26341	Issue ID:	SLX-OS-26341
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18s.1.01	Technology:	Software Installation & Upgrade
Symptom:	After upgrade from 17s build to 18s build, sometimes, "show tpvm status" displays runtime error, and indicates use "tpvm install force" to clear the error. The message to use "tpvm install force" is not correct, this command is not supported, it needs to be removed from message.		
Condition:	Upgrade from 17s build to 18s build		
Workaround:	A workaround is to uninstall TPVM before upgrade.		

Parent Defect ID:	SLX-OS-26996	Issue ID:	SLX-OS-26996
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01	Technology:	VLAN - Virtual LAN
Symptom:	This issue is seen only when CLIs "link-error- disable" and "link-fault- signaling" are being configured for an interface first time		
Condition:	when CLI "loopback phy" is not configured.		
Workaround:	No		

Parent Defect ID:	SLX-OS-26743	Issue ID:	SLX-OS-31039
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network
			Layer
Reported in Release:	SLX-OS 18s.1.01	Technology:	BGP4 - IPv4 Border
			Gateway Protocol
Symptom:	User might observe that		
	the REST API for BGP		
	EVPN IP Fabric is giving		
	some discrepancies for		
	operational data.		
Condition:	User is using REST to		
	query BGP EVPN IP Fabric		
	Operational DB		

Parent Defect ID:	SLX-OS-28744	Issue ID:	SLX-OS-31448
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 17r.1.01af	Technology:	Hardware Monitoring
Symptom:	"show system monitor" is not supported, however there is no any functional impact and only display issue.		
Condition:	"show system monitor" is not supported, however there is no any functional impact and only display issue.		

Parent Defect ID:	SLX-OS-36052	Issue ID:	SLX-OS-37628
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 17s.1.03	Technology:	CLI - Command Line Interface
Symptom:	[PI-RESTAPI] Device is getting "application communication failure" after shutdown http server with user-defined vrf		
Condition:	Shutdown http server with user-defined vrf		
Workaround:	None		

Parent Defect ID:	SLX-OS-38108	Issue ID:	SLX-OS-38415
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18r.1.00a	Technology:	Licensing
Symptom:	LICD termination while upgrading the code from 18r.1.0.0a to 18r.1.0.0aa.		
Condition:	LICD termination while upgrading the code from 18r.1.0.0a to 18r.1.0.0aa.		

Parent Defect ID:	SLX-OS-38942	Issue ID:	SLX-OS-38942
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.01	Technology:	LAG - Link Aggregation Group
Symptom:	Traffic ingressing on a Tunnel and egressing out of interface 0/9 and 0/9:1 on SLX 9240s can get dropped.		
Condition:	 The issue happens when all these conditions are true, 1. It's SLX 9240 2. Ingress is a VXLAN tunnel or the ICL interface (NSH tunnel) 3. Egress interface is 0/9 or 0/9:1 		

Parent Defect ID:	SLX-OS-28689	Issue ID:	SLX-OS-39224
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 17r.2.01	Technology:	Configuration Fundamentals
Symptom:	Symptom 1) Unable to configure large number of VLANs under an EVPN instance Symptom 2) Unable to restore a startup-config file containing a large number of VLANs under an EVPN instance.		
Condition:	Condition 1) When a vlan configuration, more than 253 characters long, is attempted when configuring an EVPN instance a length validation error is noticed. Condition 2) A vlan configuration, more than 253 characters long, when split and configured under a EVPN instance is saved in the startup- config file and restored the system may not accept the configuration.		
Workaround:	Workaround 1) Split the VLAN configuration into multiple lines. Workaround 2) Reconfigure the VLANs		

Parent Defect ID:	SLX-OS-38336	Issue ID:	SLX-OS-39629
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18x.1.00a	Technology:	CLI - Command Line Interface
Symptom:	Overlay-gateway configuration doesn't show up in running- config.		
Condition:	Overlay-gateway configuration doesn't show up in running-config after firmware upgrade with ZTP (Zero touch provisioning),		
Workaround:	none		

Parent Defect ID:	SLX-OS-40106	Issue ID:	SLX-OS-40106
Severity:	S4 - Low		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLX-OS 18s.1.02	Technology:	Other
Symptom:	Output of 'show running- config contains "advertise bgp-auto-nbr-tlv" even though the config is not supported in NPB mode.		
Condition:	Issue is seen only when switch is running in NPB mode.		

Parent Defect ID:	SLX-OS-40846	Issue ID:	SLX-OS-40846
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported in Release:	SLX-OS 17s.1.02b	Technology:	ARP - Address Resolution Protocol
Symptom:	Traffic to/from DHCP host is not routed when the DHCP IP is assigned to a new host. The ARP for such host does not age out when age out timer expires.		
Condition:	DHCP Server is sending ACK packets to relay agent even when the client address is known. Mostly seen with Windows DHCP server.		
Workaround:	Use command : clear arp ip <ip address=""></ip>		

Parent Defect ID:	SLX-OS-41166	Issue ID:	SLX-OS-41745
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Management
Reported in Release:	SLX-OS 18r.1.00b	Technology:	CLI - Command Line Interface
Symptom:	Unexpected reload of the device.		
Condition:	Protocol IIdp has dot1- tlv/dot3-tlv config and when "show IIdp neighbors detail" command is issued.		
Workaround:	None		

Parent Defect ID:	SLX-OS-38299	Issue ID:	SLX-OS-42609
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Other
Reported in Release:	SLX-OS 18x.1.00a	Technology:	Other
Symptom:	Sometimes, a panic dump may be seen while rebooting the setup.		
Condition:	This is a rare condition which may be seen while device is rebooting or when sending high rate traffic to CPU.		
Workaround:	N/A		

SLX-OS-42673	Issue ID:	SLX-OS-42675
S2 - High		
SLX-OS	Technology Group:	Other
SLX-OS 18x.1.00a	Technology:	Other
Unexpected reload		
When the management		
	S2 - High SLX-OS SLX-OS 18x.1.00a Unexpected reload	S2 - High SLX-OS Technology Group: SLX-OS 18x.1.00a Technology: Unexpected reload When the management

Parent Defect ID:	SLX-OS-37521	Issue ID:	SLX-OS-37521
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLX-OS 18s.1.02	Technology:	Telemetry
Symptom:	Traffic Stream with offset value 0x01000200 matching radius1 UDA ACL instead of ZOOM- UDP1 UDA ACL		
Condition:	Two app-telemetry rules are configured and traffic for second rule will also match the first configured rules. For example: offset / mask for radius1 is 0x01000000 / 0xff000000 and for ZOOM-UDP1 is 0x01000200 / 0xffffff00 Any traffic which matches ZOOM-UDP1 will always match radius1 as well. As radius1 tcam entry is programmed before ZOOM entry, so traffic is hitting radius1 entry (only one tcam entry can take hit in same		
Workaround:	region). As ZOOM-UDP1 entry is		
	more specific than radius1 entry, it needs to be programmed before radius1 entry.		