

SLX-OS 18s.1.01 Release for the ExtremeSwitching SLX 9140 and SLX 9240 Platforms, Release Notes v1.0

12 November 2018

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Document history

Version	Summary of changes	Publication date
1.0	Initial Release	12 November 2018

Preface

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- Email: support@extremenetworks.com. To expedite your message, enter the product name or model number in the subject line.
- GTAC Knowledge Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance.
- The Hub A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.
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Before contacting Extreme Networks for technical support, have the following information ready:

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

Extreme resources

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

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

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You can provide feedback in two ways:

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- Email us at internalinfodev@extremenetworks.com

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

Overview

SLX-OS 18s.1.01 release is a follow-on to SLX-OS 18s.1.0. In the current release, no new hardware platform is added; only SW features are added. The target platforms for this release are the ExtremeSwitching SLX 9140 and the SLX 9240.

The SLX 9140 and SLX 9240 are fixed 1-RU switching platforms based on programmable ASICs that enable the adoption of new protocols and technologies. These switches were released as a part of SLX-OS 17s.1.00, SLX-OS 18s.1.00, and SLX-OS 18s.1.01 to support enhanced NPB pipeline. The features are as follows:

- High-density 40G/100G spine-leaf connection
- SLX 9140 native 1G/10G/25G server connectivity at the leaf
- SLX 9240 1G/10G/25G/40G/100G server connectivity at the leaf
- High performance VXLAN routing
- Payload timestamping to enable accurate measurement of performance SLAs
- Port-to-port latency: ~2.5 microseconds
- Architecture: store and forward
- Enhanced NPB Pipeline
- Support for 4x10G and 4x25G with dynamic breakout

The major focus of this SLX-OS release is on the feature enhancements supporting Network Packet Broker (NPB) and Data Center, with Enhanced Fabric Automation (EFA) for IP Fabrics use cases. In addition, new optics are introduced since the previous release.

New Software Features

The following are the major features added in SLX-OS 18s.1.01 release.

Feature Name	Use case
IGMPv2 snooping with MCT	DC
SNMP Enhancements	DC
Management ACL to block ICMP timestamp in	DC
response packet	
Internal loopback support	NPB
On-board packet capture	NPB
EFA with additional support for SLX 9240 as a leaf	DC
New Optics Qualification	ALL
25G-LR Media	
Qualify SLX 9240 as a high-density leaf	DC

SLX 9140 and SLX 9240 as Network Packet Broker

SLX 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 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 95430 the UDA is based on offset/pattern match.

Consolidated Features in SLX-OS 18s.1.01

The following table lists the features introduced in SLX-OS 18s.1.01.

NPB Mode Features

Header Stripping	
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 or values of fields in the tags/encapsulations in addition to standard L2/L3/L4 fields (outer and/or inner) Multiple stripping configurations per port.
Transparent VLAN	
 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
Flex ACLs	
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 SLX

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): 2048 Flex policy-based forwarding entries (Flex): 1024 Ports per LAG: 64 TVF domains: 4096
NPB enhancements	
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 after capturing designated number of frames Internal loopback - service chaining in NPB operations. Deep packet header inspection.
New optics Qualified	
25G SFP28 LR	• 10504

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

Data Center Solutions

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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.
	ŭ
	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.
Manat ACI to blook ICAD time actors in vacua	•
Mgmt ACL to block ICMP timestamp in respon	
	Allows ICMP timestamp requests and responses to
	be dropped, by default, as a security policy.
	 If an ACL with a "permit icmp any any" 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.

Embedded Fabric Automation

EFA 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 and SLX 9140. EFA is documented in the "Embedded Fabric Automation" chapter of the *Extreme SLX-OS IP Fabrics Configuration Guide*. The following platform roles are supported: SLX 9140 as a leaf, and SLX 9240 as a spine and leaf.

Embedded Fabric Automation (EFA)

EFA application is bundled as part of the SLX firmware and can be used to configure an IP Fabric on the SLX 9240 and SLX 9140.

NOTE: See "Upgrading to EFA 1.1.0 with TPVM Ubuntu version 16.04" later in this document

- The EFA application runs on the SLX TPVM to manage the IP Fabric.
- EFA provides simplified mechanism to configure IP Fabric, once the IP addresses of the devices are provided.
- Support for SLX 9240 as a leaf is added.

RFCs, Standards, and Scalability

For RFCs, standards, and scale numbers supported in this release, refer to the Extreme SLX-OS Scale and Standards Matrix for SLX 9140 and SLX 9240.

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 www.extremenetworks.com.

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	57-000075-01
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
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	58-0000064-01
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
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

25G SFP28 LR (10km), Single Mode,	25G-SFP28-LR	10504
LC-connector, 70degC		

Mellanox Supports the following 10G optics:

- 10G USR SFP+
- 10G SR SFP+
- 10G LR SFP+ in RC2

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

For additional product details, see the following:

https://documentation.extremenetworks.com/Release Notes/slxos/17s.1.02/slxos17s.1.02c v1.0 releasenotes.pdf .

The following lists the documentation supporting this release:

- Extreme SLX-OS Command Reference, 18s.1.01
- Extreme SLX-OS IP Fabrics Configuration Guide, 18s.1.01
- Extreme SLX-OS IP Multicast Configuration Guide, 18s.1.01
- Extreme SLX-OS Layer 2 Switching Configuration Guide, 18s.1.01
- Extreme SLX-OS Layer 3 Routing Configuration Guide, 18s.1.01
- Extreme SLX-OS Management Configuration Guide, 18s.1.01
- Extreme SLX-OS MIB Reference, 18s.1.01
- Extreme SLX-OS Monitoring Configuration Guide, 18s.1.01
- Extreme SLX-OS Network Packet Broker Configuration Guide, 18s.1.01
- Extreme SLX-OS QoS and Traffic Management Configuration Guide, 18s.1.01
- Extreme SLX-OS REST API, 18s.1.01
- Extreme SLX-OS NetCONF, 18s.1.01
- Extreme SLX-OS YANG, 18s.1.01
- Extreme SLX-OS Security Configuration Guide, 18s.1.01
- Extreme SLX-OS Software Licensing Guide, 18s.1.01
- Extreme SLX 9140 Switch Hardware Installation Guide
- Extreme SLX 9140 Switch Technical Specifications
- Extreme SLX 9240 Switch Hardware Installation Guide Example
- Extreme SLX 9240 Switch Technical Specifications

Software upgrade and downgrade

Image file names

Download the following images from www.extremenetworks.com.

Image file name	Description
slxos18s.1.01.tar.gz	SLX-OS 18s.1.01 software
slxos18s.1.01_all_mibs.tar.gz	SLX-OS 18s.1.01 MIBS
slxos18s.1.01.md5	SLX-OS md5 checksum

To Install SLX-OS 18s.1.01 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.1.01 from a USB device, follow the steps below:

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

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>

Migration path

Recommended upgrade/downgrade migration paths in NPB mode:

Note: Starting with SLX 17s.1.01 NPB feature is supported only with "Advanced feature" license.

- SLX 17s.1.02/x/ab/18s.1.00 to SLX 18s.1.01 Upgrade
 - Save running-config to startup-config
 - o Make sure SLX 9240 / 9140 is in NPB mode
 - o Make sure ADVANCED FEATURES license is present
 - o Firmware Upgrade to SLX 18s.1.01
- SLX 18s.1.01 to SLX 17s.1.02/x/ab/18s.1.00 Downgrade
 - Save running-config to startup-config

- o Take back-up of the config
- o Firmware downgrade with default-config option
- o Restore the config

To	SLX 17s.1.00	SLX 17s.1.00a	SLX17s.1.01	SLX17s.1.02	SLX17s.1.02x	SLX 18s.1.00	SLX 18s.1.01
SLX 17s.1.00	NA	Default - config	Default - config	Default - config	Default - config	*	*
SLX 17s.1.00a	Default - config	NA	Default - config	Default - config	Default - config	*	*
SLX 17s.1.01	Default- config	Default - Config	NA	FWD coldboot	Default - config	*	*
SLX 17s.1.02	Default- config	Default - Config	FWDL coldboot	NA	FWD coldboot	FWD coldboot	FWD coldboot
SLX17s.1.02x	Default- config	Default - Config	Default - Config	FWD coldboot	NA	FWD coldboot	FWD coldboot
SLX 18s.1.00	*	*	*	Default - config	Default - config	NA	FWD coldboot
SLX 18s.1.01	*	*	*	Default - config	Default - config	FWD coldboot	NA

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.

Recommended upgrade/downgrade migration paths in default mode:

Note: Only if upgrading to SLX 18s.1.01 with "default-config" option, then "app-tele-l2-l3-iacl" HW profile is activated. One has to revert back to respective HW profile selected prior to upgrade and then reload.

To From	SLX 17s.1.00	SLX17s.1.0 0a	SLX17s.1. 01	SLX17s.1. 02	SLX17s.1.0 2x	SLX 18s.1.00	SLX 18s.1.01
SLX 17s.1.00	NA	FWDL coldboot	FWDL coldboot	FWDL coldboot	FWDL coldboot	*	*
SLX 17s.1.00a	FWDL- coldboot	NA	FWDL coldboot	FWDL coldboot	FWDL coldboot	*	*
SLX 17s.1.01	Default – config	Default – config	NA	FWDL coldboot	Default- config	*	*
SLX 17s.1.02	Default – config	Default – config	FWDL coldboot	NA	FWDL coldboot	FWD coldboot	FWD coldboot
SLX 17s.1.02x	Default – config	Default – config	Default- config	FWDL coldboot	NA	FWD coldboot	FWD coldboot
18s.1.00	*	*	*	Default - config	Default - config	NA	FWD coldboot
18s.1.01	*	*	*	Default - config	Default - config	FWD coldboot	NA

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.

Upgrading to EFA 1.1.0 with TPVM Ubuntu version 16.04

Do the following to upgrade the EFA application.

In the previous version, SLX-OS 17s.1.02b used TPVM Ubuntu version 14.04 on an SLX-9240. This task upgrades the version to 16.04.

1. Log in to TPVM with the TPVM IP address.

```
$ ssh -I root <TPVM_IP>
```

2. Copy the EFA database and logs backup to an external server.

\$ service efa-server stop

\$ scp /var/efa/efa.db <server_EFA_DB_Location>

\$ scp /var/log/efa/efa.log <server_EFA_Log_Location>

- 3. Stop and uninstall TPVM.
 - \$ tpvm stop
 - \$ tpvm uninstall
- 4. With the device upgraded to 18s.1.01, execute the efa deploy command.

\$ efa deploy

5. Log in to TPVM and verify the TPVM version.

```
$ ssh -l admin <TPVM_IP>
```

6. Restore the EFA 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

7. Verify that EFA is running and verify the version.

\$ ps -ef | grep -i efa

The EFA version should be 1.1.0.

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

Limitations and restrictions

NPB limitations and restrictions

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

NPB Header stripping

- a. 802.1BR and VN tag are mutually exclusive on an interface.
 - Allowed only in the outer ETH.
- b. MPLS labels can number up to maximum of 4.
- c. ERSPAN stripping Type 2 is supported. Type 1 is obsolete.
- d. Parser block can parse only up to 128 bytes of ingress frame.
- e. When both 802.1BR/VN-tag and GTP stripping are enabled, only 802.1BR/VN-tag is stripped
- f. When both 802.1BR/VN-tag and MPLS label stripping are enabled, only MPLS labels are stripped
- g. IPv6 SIP and DIP are only 64 bits each (upper or lower).
 - Needs appropriate profile
- h. 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

- i. VLAN add can only add C-VLAN tag.
- j. VLAN add/delete is ignored when GTP strip is enabled.

NPB Flex ACLs

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

Onboard packet capture

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

Internal loopback

- a. 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.
- b. A shut/no shut is required on a member port to bring it up, both while attaching it to a port-channel and detaching it from a port-channel.
- c. 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.

Non-NPB limitations and restrictions

None

Defects

Closed with code changes for SLX-OS 18s.1.01

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of 12/11/2018.

Defect ID:	DEFECT000643147			
Technical Severity:	High	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Management	
Reported In Release:	SLXOS 17s.1.02	Technology:	Software Installation	
			& Upgrade	
Symptom:	Observe "NOTAKNOWN Resourceld" error message			
Condition:	Making configuration updates before ZTP process is complete.			
Workaround:	Do not perform configuration changes until "ZTP Complete" message			
	is seen.			
Recovery:	Disable ZTP with "dhcp	ztp cancel" and reboot	the switch.	

Defect ID:	DEFECT000644467		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17s.1.02	Technology:	Telemetry
Symptom:	GRPC Streaming application daemon goes down after continuous streaming of data for an extended period of time of more than 12		
Condition:	Concurrent processing of streams to GRPC clients on a periodic basis interferes with processing of client disconnect notifications when streaming was done for an extended period of time.		
Workaround:	•	of streaming use-case, Se ning data instead of Grp	•

Defect ID:	DEFECT000645352			
Technical Severity:	Medium	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching	
Reported In Release:	SLXOS 17s.1.02	Technology:	VXLAN - Virtual	
			Extensible LAN	
Symptom:	When the command "clear counters all" is executed sflow statistics			
	will not reset.			
Condition:	For the command "clear counters all" ,reset of sflow statistics is not			
	yet implemented.			
Workaround:	The command "clear sflow statistics interface <type><name>" resets</name></type>			
	sflow statistics.			

Defect ID:	DEFECT000646017		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Network Automation and Orchestration
Reported In Release:	SLXOS 17s.1.02	Technology:	NETCONF - Network Configuration Protocol
Symptom:	"Time logged in " infor "show user"	mation is not displayed i	n proper format under
Condition:	User logged into the sv	vitch using NETCONF	

Defect ID:	DEFECT000646026			
Technical Severity:	High	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Management	
Reported In Release:	SLXOS 17s.1.02	Technology:	SNMP - Simple	
			Network	
			Management	
			Protocol	
Symptom:	Error message for ENTITY-MIB while loading SNMP MIBs in SNMP MIB			
	browser			
Condition:	Observed while loading	g Extreme MIBs on the m	nanagement station.	

Defect ID:	DEFECT000646440			
Technical Severity:	Medium	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	SLXOS 17s.1.02	Technology:	DHCP - Dynamic Host	
			Configuration	
			Protocol	
Symptom:	DHCP option 82 Circuit-ID and Remote-ID displayed without any space between them.			
Condition:	The circuit ID is the combination of Interface index and description,			
	the display command is not accounting for size of index while			
	calculating the length of the circuit ID string. This issue happens only			
	when the circuit ID is more than 60 characters.			
Workaround:	Configure IP DHCP Rela	Configure IP DHCP Relay option with Circuit ID size less than 60		
	characters.			

Defect ID:	DEFECT000646799			
Technical Severity:	High	Probability:	Medium	
Product:	Extreme SLX-OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	SLXOS 17s.1.02	Technology:	DHCP - Dynamic Host	
			Configuration	
			Protocol	
Symptom:	DHCP client relay frames are dropped in the switch.			
Condition:	When both DHCP L2 relay and L3 relay is configured on the switch.			
Workaround:	Configure only L2 DHCP relay or L3 DHCP relay on the switch. If			
	accidentally both are configured, remove one of the configuration			
	and reload the switch.			
Recovery:	Remove one of the DH	CP Relay (L2 or L3) confi	guration and reload	
	the switch.			

Defect ID:	DEFECT000651882		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17s.1.02	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	Unexpected reload due to HSLAgtd software daemon termination.		
Condition:	Too many MAC add/delete events continuously happening.		

Defect ID:	DEFECT000652922		
Technical Severity:	High	Probability:	Medium
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17s.1.02	Technology:	VLAN - Virtual LAN
Symptom:	REST/Netconf for bridge-domain-mac-state is not working		
Condition:	When REST API bridge-domain-mac-state executed.		
Workaround:	Use CLI "show bridge-domain"		

Defect ID:	DEFECT000652986			
Technical Severity:	Medium	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Security	
Reported In Release:	SLXOS 17s.1.02	Technology:	ACLs - Access Control	
			Lists	
Symptom:	"deny inner-gtp-https" configuration not restricted on individual			
	member-ports of a Port-channel.			
Condition:	"deny inner-gtp-https"	configuration.		

Defect ID:	DEFECT000653111		
Technical Severity:	Low	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17s.1.02	Technology:	CLI - Command Line
			Interface
Symptom:	Confusion between DAD and ZTP		
Condition:	No conditions, removing CLI "show dadstatus" and "dhcp auto-		
	deployment enable" from SLX to avoid confusion		

Defect ID:	DEFECT000653286		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17s.1.02	Technology:	VLAN - Virtual LAN
Symptom:	A UDP/IP Packet with UDP Destination Port = 2152 (0x868) which is		
	reserved for GTP Header can not be matched with UDP Source or		
	Destination Port in L3 ACL.		
Condition:	L3 ACL Entry to match for UDP Source or Destination Port = 2152, will		
	not be matched by GTP Packets (Packets with UDP Dest Port = 2152).		
	No Issue with non-GTP packets.		

Defect ID:	DEFECT000653903		
Technical Severity:	Medium	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17s.1.02	Technology:	LAG - Link
			Aggregation Group
Symptom:	Switch experiences unexpected reload due to software module		
	hslagtd daemon termination.		
Condition:	This issue may be seen when time-stamping feature enabled on MCT		
	links, and one of the M	CT peer is rebooted for	any other reason.

Defect ID:	DEFECT000654107		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17s.1.02	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	Traffic flooding observed on the Tunnel interface.		
Condition:	When the Tunnel interface is associated to both MCT and non-MCT		
	member vlans and the last non-MCT member vlan of the tunnel		
	interface is deleted.		

Defect ID:	DEFECT000654906		
Technical Severity:	Medium	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 17s.1.02	Technology:	ARP - Address
			Resolution Protocol
Symptom:	ARP suppression-cache entries gets cleared inadvertently.		
Condition:	'clear arp' CLI command inadvertently clears the ARP suppression-		
	cache entries.		

Defect ID:	DEFECT000659607		
Technical Severity:	High	Probability:	High
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 17s.1.02	Technology:	GTP - GPRS Tunneling
			Protocol
Symptom:	Load balancing and symmetric load balancing are not achieved with		
	GTP.		
Condition:	This issue is seen for GTP packets with same inner IP addresses but		
	varying L4 addresses.		

Defect ID:	DEFECT000660196		
Technical Severity:	Critical	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.2.01	Technology:	sFlow
Symptom:	sFlow collector IPv4 address configuration in 23.x.x.x range are		
	rejected with the error "Given IP is Invalid for Sflow collector".		
Condition:	The issue occurs since there was an error in deciding if it's a multicast		
	address (224.x.x.x. through 239.x.x.x). Note that, multicast addresses		
	can not be used as sFlo	w collector address.	

Defect ID:	DEFECT000660903			
Technical Severity:	Medium	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Management	
Reported In Release:	SLXOS 17s.1.02	Technology:	CLI - Command Line	
			Interface	
Symptom:	Public ip was getting mismatched in the output of show cluster			
	management rpc.			
Condition:	When REST query done	When REST query done for show-cluster-management in MCT		

Defect ID:	DEFECT000661098		
Technical Severity:	Medium	Probability:	Medium
Product:	Extreme SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 17s.1.02	Technology:	Configuration
			Fundamentals
Symptom:	The configuration of virtual-mac for IPv6 VRRP extended group for Ve		
	interface is not working via REST.		
Condition:	Issue is seen only through REST interface. CLI is working fine.		
Workaround:	CLI can be used for configuration of virtual-mac for IPv6 VRRP		
	extended group.		

Defect ID:	DEFECT000661218		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Traffic Management
Reported In Release:	SLXOS 18s.1.00	Technology:	Rate Limiting and
			Shaping
Symptom:	Unexpected reload of SLX 9240 after reboot.		
Condition:	Unexpected reload o SLX 9240 after save and reload with QoS		
	configuration.		
Workaround:	Save QoS configuration on interface to seprate file, instead of startup-		
	config.		
	After reboot, copy qos configuration to running-config.		
Recovery:	Remove qos configuration on physical interface, save the		
	configuration to startu	p-configuration and relo	ad.

Defect ID:	DEFECT000661483		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17s.1.02	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	L2agtd daemon may terminate unexpectedly causing a reload during		
	the boot-up process.		
Condition:	When a SLX switch is acting as a MCT node, the L2agtd daemon may		
	terminate unexpectedl	y during boot up.	

Defect ID:	DEFECT000662177		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 18s.1.00	Technology:	Port Mirroring
Symptom:	Have port mirroring configuration as a part of running configuration.		
	Reloading the system, try to remove port mirroring configuration.		
	Now we see error in removing port mirroring configuration.		
Condition:	Port mirroring configuration with reload and then remove span		
	configuration.		
Workaround:	Reconfigure mirroring.		

Defect ID:	DEFECT000662513		
Technical Severity:	High	Probability:	High
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 18s.1.00	Technology:	BGP4 - IPv4 Border
			Gateway Protocol
Symptom:	Issue seen when same MAC is received by both leaf nodes at the		
	same time. Duplication of mac not detected.		
Condition:	Same as above.		
Workaround:	Clear bgp evpn neighbo	or all	

Defect ID:	DEFECT000662716		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17s.1.02	Technology:	VLAN - Virtual LAN
Symptom:	Not all MACs are (re)learnt on an interface when checking the CLI		
	"show mac-address-table" for learnt MACs.		
Condition:	When an interface is shutdown and brought up immediately not all		
	MACs are shown as learnt under the "show mac-address-table" for		
	that interface.		

Defect ID:	DEFECT000662736			
Technical Severity:	High	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Management	
Reported In Release:	SLXOS 18s.1.00	Technology:	CLI - Command Line	
			Interface	
Symptom:	The FEC mode CLI is no	t enabled for interfaces	in 4x25G breakout	
	mode.	mode.		
Condition:	The 4x25G breakout feature is introduced in Picasso release.			
Workaround:	The default FEC mode for the 4x25G breakout interfaces is 'auto'. Set			
	the FEC mode for the link peer interface in 'auto' FEC mode for the			
	link to come up.			
Recovery:	The default FEC mode for the 4x25G breakout interfaces is 'auto'. Set			
	the FEC mode for the link peer interface in 'auto' FEC mode for the			
	link to come up.			

Defect ID:	DEFECT000662980		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 18s.1.00	Technology:	VLAN - Virtual LAN
Symptom:	Unexpected reload see	n under certain config c	ombinations.
	The box has to be reloa	nded with the following o	config- < file config1>
	After box reboots, configure		
	evpn default		
	vlan 5		
	Box reload when this CLI is issued after reload.		
Condition:	Node reloads when VLAN is added to EVPN under certain		
	configuration combinations.		
Workaround:	Avoid adding VLAN to EVPN default after reload. Add it as a part of		
	reload config.		
Recovery:	reload the node.		_

Defect ID:	DEFECT000664464		
Technical Severity:	Medium	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 18s.1.00	Technology:	ARP - Address
			Resolution Protocol
Symptom:	Adding a vlan to EVPN	default configuration led	l to an unsual restart
	of an internal process		
Condition:	Configuring EVPN		

Defect ID:	DEFECT000664625		
Technical Severity:	Medium	Probability:	Medium
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 17s.1.02	Technology:	DHCP - Dynamic Host
			Configuration
			Protocol
Symptom:	Unexpected hslagt daemon termination		
Condition:	When insight port is enabled via the CLI command "insight port		
	enable" and an unexpected hslagt daemon termination is noticed.		
Workaround:	Disable the "insight po	rt enable" CLI command	

Closed without code changes for SLX-OS 18s.1.01

This section lists software defects with Critical, High, and Medium Technical Severity closed without a code change as of 12/11/2018.

Defect ID:	DEFECT000650222	Technical Severity:	High
Reason Code:	Design Limitation	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 17s.1.02	Technology:	ARP - Address
			Resolution Protocol
Symptom:	Under conditions of scale, arp daemon displays high cpu utilization after disruptive operations like "clear arp no-refresh" on remote leaf node.		
Condition:	Disruptive triggers exe	cuted in high scale IP Fat	oric deployments.

Defect ID:	DEFECT000663149	Technical Severity:	Medium
Reason Code:	Design Limitation	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 18s.1.00	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	mac database may not be in sync across MCT nodes		
Condition:	when mac are scaled to maximum and hash collision is seen in		
	platform hardware		

Open defects for SLX-OS 18s.1.01

This section lists opoen software defects with Critical, High, and Medium Technical as of 12/11/2018.

Defect ID:	DEFECT000627390			
Technical Severity:	High	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	SLXOS 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</address>			
	command is used.	, , ,		

Defect ID:	DEFECT000627724		
Technical Severity:	Medium	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 17s.1.02	Technology:	IP Addressing
Symptom:	REST API with PUT requ	uest results in "404 Not	Found"
Condition:	When URI contains ele	ments from multiple yar	ng modules (for
	example common-def,	extreme-interface, intf-	loopback and then
	again extreme-interface) in below example:		
	http:// <device-ip>/rest/config/running/common-def:routing-</device-ip>		
	system/extreme-		
	interface:interface/intf-loopback:loopback/100/extreme-		
	interface:vrf/forwardir	ng	

Defect ID:	DEFECT000631251		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Security
Reported In Release:	SLXOS 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.		

Defect ID:	DEFECT000635596			
Technical Severity:	High	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	SLXOS 17s.1.02	Technology:	OSPF - IPv4 Open	
			Shortest Path First	
Symptom:	OSPF neighbor-ship wi	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			
Recovery:	Configure authentication waiting interval back to 300 and shut / no-			
	shut on the interface.			

Defect ID:	DEFECT000635635		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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 v	with a valid neighbor IP a	nddress.

Defect ID:	DEFECT000639874		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Security
Reported In Release:	SLXOS 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.		
Recovery:	No functional impact, o	only missing RASlog	

Defect ID:	DEFECT000642939			
Technical Severity:	High	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Management	
Reported In Release:	SLXOS 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.			
Recovery:	No functional impact, o	only missing RASlog		

Defect ID:	DEFECT000643184			
Technical Severity:	High	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Security	
Reported In Release:	SLXOS 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.			

Defect ID:	DEFECT000643267		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 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.		
Recovery:	Perform shut/ no-shut on both nodes of MCT client interface to		
	recover the traffic.		

Defect ID:	DEFECT000644362			
Technical Severity:	Low Probability: Low			
Product:	Extreme SLX-OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	SLXOS 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			
Recovery:	This is show command	This is show command print issue and no impact on functionality.As		
	per functionality the sv	vitch does act as ASBR		

Defect ID:	DEFECT000645964		
Technical Severity:	Medium	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 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.		
Recovery:	Configure timestamp o	n an individual port basi	S.

Defect ID:	DEFECT000647174		
Technical Severity:	Medium	Probability:	Medium
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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:	Use local DHCP server address as relay address instead of local subnet		
	broadcast address.		

Defect ID:	DEFECT000647572		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3 Routing/Network Layer
Reported In Release:	SLXOS 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		
Recovery:	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.		

Defect ID:	DEFECT000647939		
Technical Severity:	Medium	Probability:	High
Product:	Extreme SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17r.1.01	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	Optical monitoring OIDs are not reporting the aggregate values for RX/TX power on 100G optics. CLI displays aggregate and the MIB displays average values.		
Condition:	snmpwalk on bcsioptM	IonInfoTable.	

Defect ID:	DEFECT000648466		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	IP Multicast
Reported In Release:	SLXOS 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.		
Recovery:	Configure "ip igmp sno	oping startup-query-inte	erval" as 31 under the
	Vlan.		

Defect ID:	DEFECT000648537		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 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	

Defect ID:	DEFECT000649259		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 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 tl	han or equal to 64.

Defect ID:	DEFECT000650700		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 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 co	onfiguration.

Defect ID:	DEFECT000650990		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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		
Recovery:	Remove global MTU co	nfiguration and re-provi	sion it.

Defect ID:	DEFECT000651393		
Technical Severity:	Medium	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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.

Defect ID:	DEFECT000652626		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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 - "sho	ow bgp evpn routes type	ipv4-prefix brief"

Defect ID:	DEFECT000653005				
Technical Severity:	High	Probability:	Low		
Product:	Extreme SLX-OS	Technology Group:	Layer 3		
			Routing/Network		
			Layer		
Reported In Release:	SLXOS 17s.1.02	Technology:	IPv6 Addressing		
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 Ma	anagement port.	IPv6 address on the Management port.		

Defect ID:	DEFECT000653273		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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 Optio	n 82 with MCT configura	ation

Defect ID:	DEFECT000653384		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 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-ado	dress-table dynamic brid	ge-domain <id>?</id>

Defect ID:	DEFECT000657587		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17s.1.00	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 th	e switch status LED to b	link.

Defect ID:	DEFECT000660054		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 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.		

Defect ID:	DEFECT000660185		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 17s.1.02	Technology:	RFN - Remote Fault
			Notification
Symptom:	Ports with 100G QSFP LR4 Lite optics may experience link down		
	issues.		
Condition:	When using 100G QSFP LR4 Lite optics, part # 57-1000329-01, link		
	instabilities may be not	ticed with link fault cond	ition.

Defect ID:	DEFECT000661993		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 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 sign	naling "rx off tx on" as a	workaround

Defect ID:	DEFECT000662124			
Technical Severity:	Medium	Probability:	High	
Product:	Extreme SLX-OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	SLXOS 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, Satic Anycast Gateway IP configure with different Virtual IP			
	across leaf nodes and configure Vlan entries manual mapping under			
	overlay gateway.	overlay gateway.		

Defect ID:	DEFECT000662129		
Technical Severity:	High	Probability:	High
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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, Satic Anycast Gateway configured with different Virtual		
	MAC mapped to same	Virtual IP across leaf noc	les.

Defect ID:	DEFECT000662276			
Technical Severity:	Medium	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Monitoring	
Reported In Release:	SLXOS 17s.1.02	Technology:	OAM - Operations,	
			Admin &	
			Maintenance	
Symptom:	Customer application cannot read interface power values as the mibs			
	are displaying in microwatts/ dbm format			
Condition:	TX (1.3.6.1.4.1.1588.3.1.8.1.1.1.4) and RX power			
	(1.3.6.1.4.1.1588.3.1.8.1.1.1.7) mibs reporting microwatts/dbm			
	instead of dbm value o	instead of dbm value only		

Defect ID:	DEFECT000662458		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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_Payload 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-pay	rload32	

Defect ID:	DEFECT000662477		
Technical Severity:	Medium	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 17s.1.02	Technology:	Hardware Monitoring
Symptom:	Unable to get TX/RX Power values for an optic/transceiver through		
	SNMP for the first 3 channels.		
Condition:	TX/RX power is suppor	ted for particular SFP/QS	SFP.

Defect ID:	DEFECT000663194		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 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, fews MACs		
	are shown as EVPN		

Defect ID:	DEFECT000663298		
Technical Severity:	High	Probability:	Medium
Product:	Extreme SLX-OS	Technology Group:	Monitoring
Reported In Release:	SLXOS 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.	

Defect ID:	DEFECT000663724		
Technical Severity:	Medium	Probability:	Medium
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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 ad	dress-family ipv4
	unicast.		

Defect ID:	DEFECT000664394		
Technical Severity:	Medium	Probability:	Medium
Product:	Extreme SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 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.		

Defect ID:	DEFECT000665355		
Technical Severity:	Medium	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 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:	Unconfigure the "link-error-disable" and "link-fault-signaling", by		
	running "no link-error-disable" and "no link-fault-signaling"		
	commands.		

Defect ID:	DEFECT000665565		
Technical Severity:	Low	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 18s.1.01	Technology:	VLAN - Virtual LAN
Symptom:	SFP boundary check wa	arning messages may ap	pear for current, tx
	power and rx power, o	n the console and in the	syslog when physical
	loopback is enabled for	physical interfaces.	
	Ex:		
	QSFP28 RX power for port <slot port="">, is below low</slot>		
	boundary(High=2188, Low=40). Current value is 0 uW.		
	QSFP28 TX power for port <slot port="">, is below low</slot>		
	boundary(High=3162, Low=100). Current value is 0 uW.		
	QSFP28 Current for port <slot port="">, is below low boundary(High=13,</slot>		
	Low=3). Current value is 0 mA.		
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 me	ssages or disable the phy	ysical loopback after
	debugging/verification	tests are completed.	

Defect ID:	DEFECT000666116			
Technical Severity:	High	Probability:	Low	
Product:	Extreme SLX-OS	Technology Group:	Layer 3	
			Routing/Network	
			Layer	
Reported In Release:	SLXOS 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 ar	Remove vrf instance and reconfigure.		

Defect ID:	DEFECT000666289		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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		

Defect ID:	DEFECT000666377		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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 q	uery BGP EVPN IP Fabric	Operational DB

Defect ID:	DEFECT000668019		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 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 N	ACT cluster nodes.	

Defect ID:	DEFECT000668209		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 18s.1.01	Technology:	CLI - Command Line
			Interface
Symptom:	Should show "Copyright (c) 2017-2018 Extreme Networks Inc."		
Condition:	only when show verison command is executed through rest api		

Defect ID:	DEFECT000668298		
Technical Severity:	High	Probability:	Medium
Product:	Extreme SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 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 i	n the audit log.

Defect ID:	DEFECT000668405		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 18s.1.01	Technology:	CLI - Command Line
			Interface
Symptom:	SNMP query for dot1qTpFdbPort object doesn't yield the correct output.		
Condition:	When SNMP query is performed on the MIB object dot1qTpFdbPort, it always returns "-1". Avoid using the query output		

Defect ID:	DEFECT000668408		
Technical Severity:	High	Probability:	Medium
Product:	Extreme SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 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:	Remove the existing authentication configuration (ex:"tacacs+ local-		
	auth-fallback") and then add the new configuration (ex: "radius local-		
	auth-fallback") instead	of attempting modificat	ion in one step.

Defect ID:	DEFECT000668412		
Technical Severity:	High	Probability:	High
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 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		

Defect ID:	DEFECT000668446		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 3
			Routing/Network
			Layer
Reported In Release:	SLXOS 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 trigger the		
	clear command "clear	bgp evpn neighbor <pee< th=""><th>er-ip> soft in"</th></pee<>	er-ip> soft in"

Defect ID:	DEFECT000668450		
Technical Severity:	High	Probability:	High
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 18s.1.01	Technology:	MCT - Multi-Chassis
			Trunking
Symptom:	Redundant traffic is sent from both MCT peers		
Condition:	no deploy / deploy the	cluster	

Defect ID:	DEFECT000668458		
Technical Severity:	High	Probability:	High
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 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 bg	gp neighbor all	

Defect ID:	DEFECT000668466		
Technical Severity:	Medium	Probability:	Medium
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 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		

Defect ID:	DEFECT000668477		
Technical Severity:	Medium	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 18s.1.01	Technology:	CLI - Command Line
			Interface
Symptom:	After firmware upgrade, when issue "usb on" for the first time, the command could fail with error "Fail to enable USB storage device. Error: The device directory structure is not formatted"		
Condition:	After firmware upgrade		
Workaround:	Wait for several minutes and issue the "usn on" again		

Defect ID:	DEFECT000668553		
Technical Severity:	High	Probability:	Low
Product:	Extreme SLX-OS	Technology Group:	Layer 2 Switching
Reported In Release:	SLXOS 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.		

Defect ID:	DEFECT000668034		
Technical Severity:	High	Probability:	Med
Product:	Extreme SLX-OS	Technology Group:	Management
Reported In Release:	SLXOS 18s.1.01	Technology:	CLI - Command Line Interface
Symptom:	When the special character single code (') is used in password, "copy config" command will fail, as it is not supported.		
Condition:	password contains special character as single code (')		
Workaround:	Avoid using single code (') in password		

EFA open defects

Defect ID:		SIPF-471	
Technical Severity:	Medium	Probability:	Medium
Product:	Extreme SLX-OS	Technology Group:	NA
Reported In Release:	SLXOS 18s.1.01	Technology:	NA
Symptom:		Seeing a warning message to clear any warnings/errors with the TPVM startup.	
Condition:		First iteration of "efa deploy" failed with warnings.	

Defect ID:		SIPF-477		
Technical Severity:	High	Probability:	High	
Product:	Extreme SLX-OS	Technology Group:	NA	
Reported In Release:	SLXOS 18s.1.01	Technology:	NA	
Symptom:		Failed to discover MCT links during ad devices to fabric.		
Condition:		MCT configuration fa over 25G links.	MCT configuration failed between SLX 9140 over 25G links.	

Defect ID:		SIPF-479	
Technical Severity:	Low	Probability:	High
Product:	Extreme SLX-OS	Technology Group:	NA
Reported In Release:	SLXOS 18s.1.01	Technology:	NA
Symptom:		Configuring IPv4 Static Anycast MAC Address on spine.	
Condition:		IPv4 Static Anycast MAC Address is configured on spines.	