SLX-OS 18s.1.02 Release for the ExtremeSwitching SLX 9140 and SLX 9240 Platforms, Release Notes v2.0

6 June 2019

9036281-00

Contents

Document history

Version	Summary of changes	Publication date
1.0	Initial Release	30 May 2019
2.0	TPVM updates	6 June 2019

Preface

Contacting Extreme Technical Support

As an Extreme customer, you can contact Extreme Technical Support using one of the following methods: 24x7 online or by telephone. OEM customers should contact their OEM/solution provider.

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

- GTAC (Global Technical Assistance Center) for immediate support
- Phone: 1-800-998-2408 (toll-free in U.S. and Canada) or +1 408-579-2826. For the support phone number in your country, visit: www.extremenetworks.com/support/contact.
- 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.
- Support Portal - Manage cases, downloads, service contracts, product licensing, and training and certifications.

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.

Document feedback

Quality is our first concern at Extreme, and we have made every effort to ensure the accuracy and completeness of this document. However, if you find an error or an omission, or you think that a topic needs further development, we want to hear from you.

You can provide feedback in two ways:

- Use our short online feedback form at http://www.extremenetworks.com/documentation-feedback-pdf/
- 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.

Software Features

This section addresses key Network Packet Broker (NPB) features introduced in the current release as well those introduced in the previous releases.

Overview

SLX-OS 18s.1.0.2 release is the fourth release in a series for SLX Switching platforms. The SLX 9140 and SLX 9240 are the focus of the new features in this release, which are mainly focused on the Network Packet Broker (NPB) solution. No new hardware platform is added in this release, and only software features are added.

NOTE. This document includes information that is related to features supported in the previous releases.

The SLX 9140 and 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 Network Packet Broker (NPB) pipeline and SLX switching and routing feature. The features are as follows:

- SLX 9140 native 1G/10G/25G/40G/100G
- SLX 9240 native 40G/100G
- 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

SLX-OS 18s.1.02

The key features for SLX-OS 18s.1.02 are focused on the NPB solution and Optics qualification.

The list of features is as follows:

- **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)
- **Support for Optics** - 10GBASE-T SFP+ and 100G DAC cable support for 5m reach.

SLX 9140 and SLX 9240 as Network Packet Broker

The SLX 9140 and SLX 9240 switches may be used as a Network Packet Brokers. 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.

NOTE: The Advanced Features Self Authenticated Upgrade (SAU) license enables Network Packet Broker features on the Extreme SLX 9140 and SLX 9240 switches.

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.1.02

The following table lists the consolidates NPB features till SLX-OS 18s.1.02.

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-Tag either one 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
Transparent VLAN	
• Aggregation • Replication • VLAN Filtering • VLAN Tag Add • VLAN Tag Delete	• 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

• Combination of VLAN Delete and VLAN Add with header stripping. • Max TVF domains	• Outer most 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 ACL	
• 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 ACL** (new for 9240 and 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	
• 40G Bi Di media • 25G SFP28 LR • 10GBASE-T SFP+ • 100G DAC cable support for 5 m reach	• 40G Bidirectional media support • 10504 • 10338 • 100G-QSFP-QSFP-P-0501

Miscellaneous Features	
Port Breakout Support	Support for 4x25G and 4x10G
Dynamic Breakout Support	Eliminates the need to reload the system when breakout or non-breakout on ports.

NPB features for the 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.

Please note the following:

• 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 NOSCLI has 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 and frame which does not have a destination, which is derived as a result of policy hit or a tool ID table hit (for NPB grid scenario) tends to get dropped.

TPVM

Upgrade and downgrade procedures are changed. Refer to “TPVM” in the “Software Upgrade and Downgrade” section.

TPVM limitations

The **tpvm password** command is not supported. Unexpected behavior can result.

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	57-0000075-01
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
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 support starting with SLX18s.1.01

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

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

New optics support starting with SLX18s.1.02

10GBASE-T SFP+	**10338 Extreme part no.**	
100GE Direct Attached QSFP-28 to QSFP-28 Passive Copper cable, 5m	100G-QSFP-QSFP-P-0501	

Documentation Supporting SLX-OS

For additional documentation that supports this release, 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.1.02

Image file names

Download the following images from www.extremenetworks.com.

Image file name	Description
slxos18s.1.02.tar.gz	SLX-OS 18s.1.02 software
slxos18s.1.02_all_mibs.tar.gz	SLX-OS 18s.1.02 MIBS
slxos18s.1.02.md5	SLX-OS md5 checksum
tpvm2.1.0.tar.gz	TPVM image
tpvm2.1.0.md5	TPVM MD5 checksum

To Install SLX-OS 18s.1.02 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.1.02 from a USB device, follow the steps below:

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

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

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

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.

Do the following to execute a TPVM package upgrade from slxos18s.1.01 to slxos18s.1.02.

1. Uninstall the current TPVM image. (You must stop the TPVM process first if it is running, by means of the **tpvm stop** command.)

   device# **tpvm uninstall**

2. Remove the existing TPVM package, located at following path in the device, by using the SLXOS VM at the Linux shell login prompt.

   rm -rf /tftpboot/SWBD2900/vm-swbd2900-*.deb
   rm -rf /mnt/tftpboot/SWBD2900/vm-swbd2900-*.deb

3. Upgrade the device to the slxos18s.1.02 release by using the following command.

   device# **firmware download**

4. Use **scp** or **ftp** to move the downloaded TPVM package to the following directory on the device.

   . . . /tftpboot/SWBD2900/*<downloaded_TPVM_package>*

5. Install the new TPVM package.

   # tpvm install

6. Check TPVM installation status and start TPVM.

   # show tpvm status
   # tpvm start

Do the following to downgrade the TPVM package from slxos18s.1.02 to slxos18s.1.01.

1. Uninstall the existing TPVM package. (You must stop the TPVM process first if it is running, by means of the **tpvm stop** command.)

device# **tpvm uninstall**

2. Remove the existing TPVM package, located at the following path on the device, by using the Linux shell login prompt.

rm -rf /tftpboot/SWBD2900/tpvm-*.deb

3. Downgrade the device to slxos18s.1.01.

device# **firmware download**

4. Install the new TPVM package.

device# **tpvm install**

5. Check TPVM install status and start TPVM.

device# **show tpvm status**
device# **tpvm start**

Migration path

Recommended upgrade/downgrade migration paths in NPB mode:

To From	17s. 1.00	17s. 1.00a	17s. 1.01	17s. 1.02	17s. 1.02x	18s. 1.00	18s. 1.01	18s. 1.02
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
18s.1.00	*	*	*	Default – config	Default - config	NA	FWD coldboot	FWD coldboot
18s.1.01	*	*	*	Default – config	Default - config	FWD coldboot	NA	FWD coldboot
18s.1.02	*	*	*	Default – config	Default - config	FWD coldboot	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.1.02 release.

Defects

Closed with code changes for SLX-OS 18s.1.02

Parent Defect ID:	SLXOS-21045	**Issue ID:**	SLXOS-21045
Severity:	S2 - High		
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported in Release:	SLXOS 17s.1.02	**Technology:**	RFN - Remote Fault Notification
Symptom:	interface stay down and will not come up, light level is good with Rx Power in normal range		
Condition:	When using 100G QSFP LR4 Lite optics, part # 57-1000329-01, link instabilities may be noticed with link fault condition.		

Parent Defect ID:	SLXOS-21061	**Issue ID:**	SLXOS-21061
Severity:	S3 - Medium		
Product:	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 only		

Parent Defect ID:	SLXOS-21062	**Issue ID:**	SLXOS-21062
Severity:	S3 - Medium		
Product:	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 supported for particular SFP/QSFP.		

Parent Defect ID:	SLXOS-26320	**Issue ID:**	SLXOS-26320
Severity:	S3 - Medium		
Product:	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

Parent Defect ID:	SLXOS-26345	**Issue ID:**	SLXOS-26345
Severity:	S3 - Medium		
Product:	SLX-OS	**Technology Group:**	Management
Reported in Release:	SLXOS 18s.1.01	**Technology:**	Software Installation & Upgrade
Symptom:	After upgrade from 17s build to 18s build, sometimes "show tpvm status" displays run time environment error while TPVM itself is working good.		
Condition:	Upgrade from 17s build to 18s build		

Parent Defect ID:	SLXOS-26835	**Issue ID:**	SLXOS-26835
Severity:	S2 - High		
Product:	SLX-OS	**Technology Group:**	Management
Reported in Release:	SLXOS 18s.1.01	**Technology:**	CLI - Command Line Interface
Symptom:	it is display issue. Brocade instead of Extreme when show firmware version is issued through rest api		
Condition:	only when show verison command is executed through rest api		

Parent Defect ID:	SLXOS-27416	**Issue ID:**	SLXOS-27416
Severity:	S2 - High		
Product:	SLX-OS	**Technology Group:**	Management
Reported in Release:	SLXOS 18x.1.00	**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 (')		

Parent Defect ID:	SLXOS-27425	**Issue ID:**	SLXOS-27425
Severity:	S2 - High		
Product:	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		

Parent Defect ID:	SLXOS-39220	**Issue ID:**	SLXOS-39220
Severity:	S1 - Critical		
Product:	SLX-OS	**Technology Group:**	Management
Reported in Release:	SLXOS 18s.1.01a	**Technology:**	SNMP - Simple Network Management Protocol
Symptom:	LLDP-MIB::lldpLocPortId value is not correct (appears corrupted) when queried via SNMP GET operation.		
Condition:	Issue occurs only for SNMP GET operation (on LLDP-MIB::lldpLocPortId). SNMP GET-NEXT and snmpwalk returns correct values.		

Closed without code changes for SLX-OS 18s.1.02

Parent Defect ID:	SLXOS-39624	**Issue ID:**	SLXOS-39624
Reason Code:	Cannot Fix	**Severity:**	S3 - Medium
Product:	SLX-OS	**Technology Group:**	Monitoring
Reported in Release:	SLXOS 18s.1.02	**Technology:**	Telemetry
Symptom:	default date for last streamed attribute for a given profile		
Condition:	when no event notification is processed by streaming done		

Open defects for SLX-OS 18s.1.02

Parent Defect ID:	SLXOS-40495	**Issue ID:**	SLXOS-40495
Severity:	S2 - High		
Product:	SLX-OS	**Technology Group:**	Management
Reported in Release:	SLXOS 17s.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.		
Workaround:	This command is not valid and avoid using this command.		
Recovery	Reload System		

Parent Defect ID:	SLXOS-18559	**Issue ID:**	SLXOS-18559
Severity:	S2 - High		
Product:	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.		

Parent Defect ID:	SLXOS-26340	**Issue ID:**	SLXOS-26340
Severity:	S2 - High		
Product:	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 modification in one step.		

Parent Defect ID:	SLXOS-26836	**Issue ID:**	SLXOS-26836

Severity:	S2 - High		
Product:	SLX-OS40295	**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 in the audit log.		

Parent Defect ID:	SLXOS-26996	**Issue ID:**	SLXOS-26996
Severity:	S3 - Medium		
Product:	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:	in case when CLI "loopback phy" is already configured. There is no issue.		

Parent Defect ID:	SLXOS-28090	**Issue ID:**	SLXOS-28090
Severity:	S2 - High		
Product:	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-payload32		

Parent Defect ID:	SLXOS-39023	**Issue ID:**	SLXOS-39023
Severity:	S2 - High		
Product:	SLX-OS	**Technology Group:**	Monitoring
Reported in Release:	SLXOS 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:	SLXOS-41160	**Issue ID:**	SLXOS-41160
Severity:	S2 - High		
Product:	SLX-OS	**Technology Group:**	Monitoring
Reported in Release:	SLXOS 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:	SLXOS-39720	**Issue ID:**	SLXOS-39720
Severity:	S3 - Medium		
Product:	SLX-OS	**Technology Group:**	Monitoring
Reported in Release:	SLXOS 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:	SLXOS-40295	**Issue ID:**	SLXOS-40295
Severity:	S3 - Medium		
Product:	SLX-OS	**Technology Group:**	Monitoring
Reported in Release:	SLXOS 18s.1.02	**Technology:**	Telemetry
Symptom:	fields in default LLDP profile		
Condition:	sync attribute displayed after LLDP profile reset.		

Parent Defect ID:	SLXOS-40106	**Issue ID:**	SLXOS-40106
Severity:	S4 - Low		
Product:	SLX-OS	**Technology Group:**	Layer 2 Switching
Reported in Release:	SLXOS 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.		
Workaround:	Remove ‘advertise bgp-auto-nbr-tlv’ from protocol lldp using the command no ‘advertise bgp-auto-nbr-tlv'		