

29 March 2017



SLX-OS 17s.1.00a for SLX 9140, SLX 9240

Release Notes v2.0

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Document history

Version	Summary of changes	Publication date
1.0	Initial Release	March 29, 2017
2.0	Updated Limitations and Restrictions	April 7, 2017

Preface

Contacting Brocade Technical Support

As a Brocade customer, you can contact Brocade Technical Support 24x7 online or by telephone. Brocade OEM customers should contact their OEM/solution provider.

Brocade customers

For product support information and the latest information on contacting the Technical Assistance Center, go to www.brocade.com and select Support.

If you have purchased Brocade product support directly from Brocade, use one of the following methods to contact the Brocade Technical Assistance Center 24x7.

Online	Telephone
Preferred method of contact for non-urgent issues: <ul style="list-style-type: none">• My Cases through MyBrocade• Software downloads and licensing tools• Knowledge Base	Required for Sev 1-Critical and Sev 2-High issues: <ul style="list-style-type: none">• Continental US: 1-800-752-8061• Europe, Middle East, Africa, and Asia Pacific: +800-AT FIBREE (+800 28 34 27 33)• For areas unable to access toll free number: +1-408-333-6061• Toll-free numbers are available in many countries.

Brocade OEM customers

If you have purchased Brocade product support from a Brocade OEM/solution provider, contact your OEM/solution provider for all of your product support needs.

- OEM/solution providers are trained and certified by Brocade to support Brocade® products.
- Brocade provides backline support for issues that cannot be resolved by the OEM/solution provider.
- Brocade Supplemental Support augments your existing OEM support contract, providing direct access to Brocade expertise. For more information, contact Brocade or your OEM.
- For questions regarding service levels and response times, contact your OEM/solution provider.

Related documentation

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

White papers, data sheets, and the most recent versions of Brocade software and hardware manuals are available at www.brocade.com.

Product documentation for all supported releases is available to registered users at MyBrocade. Click the Support tab and select Document Library to access documentation on MyBrocade or www.brocade.com. You can locate documentation by product or by operating system.

Release notes are bundled with software downloads on MyBrocade. Links to software downloads are available on the MyBrocade landing page and in the Document Library.

Document feedback

Quality is our first concern at Brocade, 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:

- Through the online feedback form in the HTML documents posted on www.brocade.com
- By sending your feedback to documentation@brocade.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



Figure 1: SLX 9240: 32x100GE spine



Figure 2: SLX 9140: 48x25GE + 6x100GE leaf

SLX 9140 and SLX 9240 are fixed 1U switching platform a based off programmable ASIC from Cavium that enables adoption of new protocols and technologies. The platforms support:

- High density 100G spine-leaf connection
- Native 25GE server connectivity at the leaf
- High performance VXLAN routing (Future release)
- Payload timestamping to enable accurate measurement of performance SLAs
- Port-to-port Latency: ~2.5us
- Architecture: Store & Forward

Software Features

The primary usecase supported in this release is basic IP Fabric.

Use Case	PIN	SLX 9240	SLX 9140	Market Segment
IP Fabric	Spine	Y		CSP, Enterprise DC
	Leaf, Border-Leaf		Y	CSP, Enterprise DC

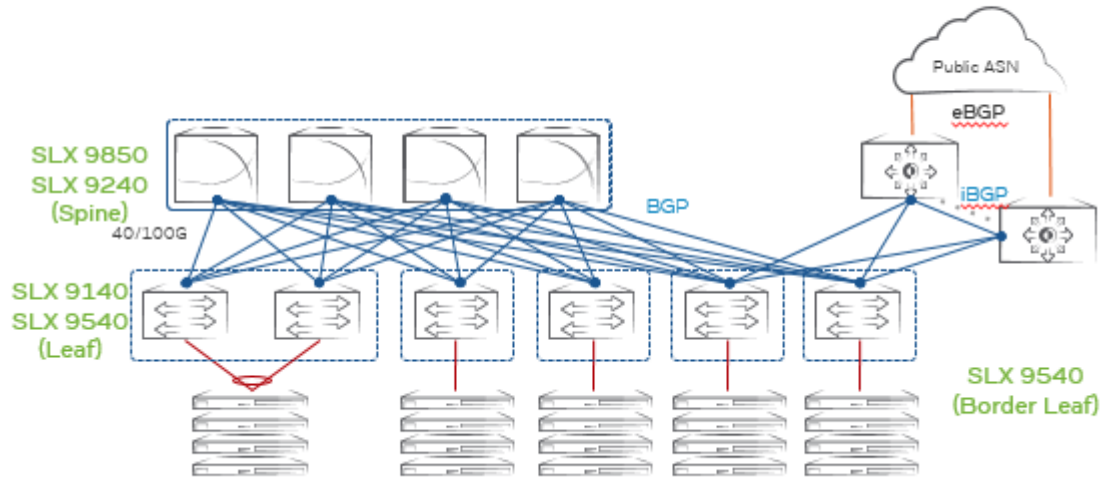


Figure 3: 3-Stage Clos IP fabrics with single or dual-homed servers easily scale

As a part of this base IP fabric, the following features will be supported:

Layer 2 Switching	
<ul style="list-style-type: none"> • Conversational MAC Learning • Virtual Link Aggregation Group (vLAG) spanning • Layer 2 Access Control Lists (ACLs) • Address Resolution Protocol (ARP) RFC 826 • Layer 2 Loop prevention in an overlay environment • MLDv1 Snooping • IGMP v1/v2 Snooping • MAC Learning and Aging • Link Aggregation Control Protocol (LACP) IEEE 802.3ad/802.1AX • Virtual Local Area Networks (VLANs) 	<ul style="list-style-type: none"> • VLAN Encapsulation 802.1Q • BD Support • Per-VLAN Spanning Tree (PVST+/PVRST+) • Rapid Spanning Tree Protocol (RSTP) 802.1w • Multiple Spanning Tree Protocol (MSTP) 802.1s • STP PortFast, BPDU Guard, BPDU Filter • STP Root Guard • Pause Frames 802.3x • Static MAC Configuration • Multi-Chassis Trunking (MCT)
Layer 3 Routing	
<ul style="list-style-type: none"> • Border Gateway Protocol (BGP4+) • DHCP Helper • Layer 3 ACLs • OSPF v2/v3 • Static routes • IPv4/v6 ACL • Route Policies • Bidirectional Forwarding Detection (BFD) • 32-Way ECMP • VRF Lite • VRF-aware OSPF, BGP, VRRP, static routes • VRRP v2 and v3 	<ul style="list-style-type: none"> • VRRP-E • IPv4/IPv6 dual stack • ICMPv6 Route-Advertisement Guard IPv6 ACL packet filtering • BGP-Allow AS • BGP Generalized TTL Security Mechanism (GTSM) • IPv6 routing • OSPF Type-3 LSA Filter • Wire-speed routing for IPv4 and IPv6 using any routing protocol • Multi-VRF
Automation and Programmability	
<ul style="list-style-type: none"> • gRPC Streaming protocol and API • REST API with YANG data model • Python 	<ul style="list-style-type: none"> • PyNOS libraries • DHCP automatic provisioning • NETCONF API
Quality of Service	
<ul style="list-style-type: none"> • ACL-based QoS • Two Lossless priority levels for QoS • Class of Service (CoS) IEEE 802.1p • DSCP Trust • DSCP to Traffic Class Mutation • DSCP to CoS Mutation • DSCP to DSCP Mutation 	<ul style="list-style-type: none"> • Random Early Discard • Per-port QoS configuration • ACL-based Rate Limit • Dual-rate, three-color token bucket • ACL-based remarking of CoS/DSCP/Precedence • ACL-based sFlow • Scheduling: Strict Priority (SP), Deficit Weighted Round-Robin (DWRR)
Management and Monitoring	
<ul style="list-style-type: none"> • 1588v2 PTP 	<ul style="list-style-type: none"> • SNMP v1, v2C, v3

<ul style="list-style-type: none"> • Time Stamping • Zero-Touch Provisioning (ZTP) • IPv4/IPv6 management • Industry-standard Command Line Interface (CLI) • NETCONF API • REST API with YANG data model • SSH/SSHv2 • Link Layer Discovery Protocol (LLDP) IEEE 802.1AB • MIB II RFC 1213 MIB • Syslog (RASlog, AuditLog) • Management VRF • Switched Port Analyzer (SPAN) • Telnet 	<ul style="list-style-type: none"> • sFlow version 5 • Out-of-band management • RMON-1, RMON-2 • NTP • Management Access Control Lists (ACLs) • Role-Based Access Control (RBAC) • Range CLI support • Python • DHCP Option 82 Insertion • DHCP Relay • Guest VM support • SLX-OS and Linux Shell Interoperability
Security	
<ul style="list-style-type: none"> • Port-based Network Access Control 802.1X • RADIUS • AAA • TACACS+ • Secure Shell (SSHv2) • TLS 1.1, 1.2 • HTTP/HTTPS 	<ul style="list-style-type: none"> • BPDU Drop • Lightweight Directory Access Protocol (LDAP) • Secure Copy Protocol • Control Plane Protection • LDAP/AD • SFTP • Port Security

Important Notes

Zero Touch Provisioning (ZTP)

- ZTP is enabled by default on SLX switches from factory or by “write erase”. Upon switch power-on or reboot by “write erase”, it will automatically connect to DHCP server through both management interface and inband ports with connection for firmware to download and configuring the switch based on the DHCP configuration.
- If the switch does not have a DHCP server connected or the DHCP server is not configured for ZTP, the switch will keep searching the DHCP server for ZTP.

The serial console of the switch will display ZTP message as following:

```
ZTP, Mon Mar 27 21:00:58 2017, ===== ZTP start =====
ZTP, Mon Mar 27 21:00:58 2017, disable raslog
ZTP, Mon Mar 27 21:00:58 2017, CLI is ready
ZTP, Mon Mar 27 21:01:35 2017, inband ports are enabled
ZTP, Mon Mar 27 21:01:36 2017, serial number = EXH3314M00A
ZTP, Mon Mar 27 21:01:36 2017, model name = SLX9140
ZTP, Mon Mar 27 21:01:36 2017, use both management interface and inband interfaces
```

```

ZTP, Mon Mar 27 21:01:36 2017, checking inband interfaces link status
ZTP, Mon Mar 27 21:02:27 2017, find link up on interfaces: eth0 Eth0.4 Eth0.43 Eth0.44
ZTP, Mon Mar 27 21:02:27 2017, start dhcp process on interfaces: eth0 Eth0.4 Eth0.43 Eth0.44
ZTP, Mon Mar 27 21:02:37 2017, retry in 10 seconds
ZTP, Mon Mar 27 21:02:47 2017, inband ports are enabled
ZTP, Mon Mar 27 21:02:47 2017, serial number = EXH3314M00A
ZTP, Mon Mar 27 21:02:47 2017, model name = SLX9140
ZTP, Mon Mar 27 21:02:47 2017, use both management interface and inband interfaces
ZTP, Mon Mar 27 21:02:47 2017, dhcp server search timeout in 3529 seconds
ZTP, Mon Mar 27 21:02:47 2017, checking inband interfaces link status
ZTP, Mon Mar 27 21:02:48 2017, find link up on interfaces: eth0 Eth0.4 Eth0.43 Eth0.44
ZTP, Mon Mar 27 21:02:48 2017, start dhcp process on interfaces: eth0 Eth0.4 Eth0.43 Eth0.44
ZTP, Mon Mar 27 21:02:58 2017, retry in 10 seconds
...

```

You may login to the switch and cancel ZTP, then reboot the switch (with “reload system”) before making any configuration change on the switch.

```

SLX# dhcp ztp cancel

```

```

Warning: This command will terminate the existing ZTP session
After ZTP has been confirmed canceled, you need to run "reload system" before configuring the switch.

```

```

Do you want to continue? [y/n] y

```

```

SLX# ZTP, Mon Mar 27 21:08:08 2017, serial number = EXH3314M00A
ZTP, Mon Mar 27 21:08:08 2017, model name = SLX9140
ZTP, Mon Mar 27 21:08:08 2017, use both management interface and inband interfaces
ZTP, Mon Mar 27 21:08:08 2017, dhcp server search timeout in 3208 seconds
ZTP, Mon Mar 27 21:08:08 2017, checking inband interfaces link status
ZTP, Mon Mar 27 21:08:09 2017, find link up on interfaces: eth0 Eth0.4 Eth0.43 Eth0.44
ZTP, Mon Mar 27 21:08:09 2017, start dhcp process on interfaces: eth0 Eth0.4 Eth0.43 Eth0.44

```

Wait for 10 seconds. You may confirm the ZTP is canceled, re-executing the same command.

```

SLX# dhcp ztp cancel

```

```

ZTP is not enabled.

```

```

SLX# SLX# reload system

```

```

Warning: This operation will cause the chassis to reboot and
requires all existing telnet, secure telnet and SSH sessions to be
restarted.

```

```

Unsaved configuration will be lost. Please run `copy running-config startup-config` to save the current
configuration if not done already.

```

```

Are you sure you want to reboot the chassis [y/n]? y

```

```

[ 940.360081] VBLADE: vblade_control: FEPORTS_DISABLE
xpDma::quiesce:307 devId=0
xpDriverWrapper::quiesce:146 devId=0
FABOS_BLADE_MSG_BL_DISABLE received in HSLUA for chip 0
2017/03/27-21:14:13, [RAS-1007], 567,, INFO, SLX9140, System is about to reload.
...

```

Documentation supporting SLX-OS

The most recent versions of Brocade software manuals and hardware manuals are available on the mybrocade.com website.

DOCUMENTATION ON MYBROCADE.COM

1. Log into mybrocade.com
2. Go to the documentation tab.
3. Under Product Manuals, from the “downloaded by” drop down box, select SLX Operating System (SLX OS).
4. Select your publication.

The following lists new documentation introduced with this release:

- Brocade SLX-OS Command Reference, 17s.1.00
- Brocade SLX-OS IP Multicast Configuration Guide, 17s.1.00
- Brocade SLX-OS Layer 2 Switching Configuration Guide, 17s.1.00
- Brocade SLX-OS Layer 3 Routing Configuration Guide, 17s.1.00
- Brocade SLX-OS Management Configuration Guide, 17s.1.00
- Brocade SLX-OS MIB Reference, 17s.1.00
- Brocade SLX-OS Monitoring Configuration Guide, 17s.1.00
- Brocade SLX-OS QoS and Traffic Management Configuration Guide, 17s.1.00
- Brocade SLX-OS REST API, 17s.1.00
- Brocade SLX-OS NetCONF, 17s.1.00
- Brocade SLX-OS YANG, 17s.1.00
- Brocade SLX-OS Security Configuration Guide, 17s.1.00
- Brocade SLX-OS Software Licensing Guide, 17s.1.00
- Brocade SLX 9140 Switch Hardware Installation Guide
- Brocade SLX 9240 Switch Hardware Installation Guide

RFCs and Standards

Brocade SLX 9140, 9240 Specifications

IEEE Compliance		
Ethernet	<ul style="list-style-type: none"> • IEEE 802.1D Spanning Tree Protocol • IEEE 802.1s Multiple Spanning Tree • IEEE 802.1w Rapid Reconfiguration of Spanning Tree Protocol • IEEE 802.3 Ethernet • IEEE 802.3ad Link Aggregation with LACP • IEEE 802.3ae 10G Ethernet • IEEE 802.1Q VLAN Tagging • IEEE 802.1p Class of Service 	<ul style="list-style-type: none"> • Prioritization and Tagging • IEEE 802.1v VLAN Classification by Protocol and Port • IEEE 802.1AB Link Layer Discovery Protocol (LLDP) • IEEE 802.3x Flow Control (Pause Frames) • IEEE 802.3ab 1000BASE-T • IEEE 802.3z 1000BASE-X
RFC Compliance		
General Protocols	<ul style="list-style-type: none"> • RFC 768 User Datagram Protocol (UDP) • RFC 783 TFTP Protocol (revision 2) • RFC 791 Internet Protocol (IP) • RFC 792 Internet Control Message Protocol (ICMP) • RFC 793 Transmission Control Protocol (TCP) • RFC 826 ARP • RFC 854 Telnet Protocol Specification • RFC 894 A Standard for the Transmission of IP Datagram over Ethernet Networks • RFC 959 FTP • RFC 1027 Using ARP to Implement Transparent Subnet Gateways (Proxy ARP) • RFC 1112 IGMP v1 • RFC 1157 Simple Network Management Protocol (SNMP) v1 and v2 • RFC 1305 Network Time Protocol (NTP) Version 3 • RFC 1492 TACACS+ • RFC 1519 Classless Inter-Domain Routing (CIDR) • RFC 1584 Multicast Extensions to OSPF • RFC 1765 OSPF Database Overflow • RFC 1812 Requirements for IP Version 4 Routers • RFC 1997 BGP Communities Attribute • RFC 2068 HTTP Server • RFC 2131 Dynamic Host Configuration Protocol (DHCP) • RFC 2154 OSPF with Digital Signatures (Password, MD-5) • RFC 2236 IGMP v2 • RFC 2267 Network Ingress Filtering Option—Partial Support • RFC 2328 OSPF v2 	<ul style="list-style-type: none"> • RFC 2710 Multicast Listener Discovery (MLD) for IPv6 • RFC 2711 IPv6 Router Alert Option • RFC 2740 OSPFv3 for IPv6 • RFC 2865 Remote Authentication Dial-In User Service (RADIUS) • RFC 3101 The OSPF Not-So-Stubby Area (NSSA) Option • RFC 3137 OSPF Stub Router Advertisement • RFC 3176 sFlow • RFC 3392 Capabilities Advertisement with BGPv4 • RFC 3411 An Architecture for Describing SNMP Frameworks • RFC 3412 Message Processing and Dispatching for the SNMP • RFC 3587 IPv6 Global Unicast Address Format RFC 4291 IPv6 Addressing Architecture • RFC 3623 Graceful OSPF Restart—IETF Tools • RFC 3768 VRRP • RFC 4271 BGPv4 • RFC 4443 ICMPv6 (replaces 2463) • RFC 4456 BGP Route Reflection • RFC 4510 Lightweight Directory Access Protocol (LDAP): Technical Specification Road Map • RFC 4724 Graceful Restart Mechanism for BGP • RFC4750 OSPFv2.MIB

	<ul style="list-style-type: none"> • RFC 2370 OSPF Opaque Link-State Advertisement (LSA) • RFC 2375 IPv6 Multicast Address Assignments • RFC 2385 Protection of BGP Sessions with the TCP MD5 Signature Option • RFC 2439 BGP Route Flap Damping • RFC 2460 Internet Protocol, Version 6 (v6) Specification (on management interface) • RFC 2462 IPv6 Stateless Address Auto-Configuration • RFC 2464 Transmission of IPv6 Packets over Ethernet Networks (on management interface) • RFC 2474 Definition of the Differentiated Services Field in the IPv4 and IPv6 Headers • RFC 2571 An Architecture for Describing SNMP Management Frameworks • RFC 3413 Simple Network Management Protocol (SNMP) Applications 	<ul style="list-style-type: none"> • RFC 4861 IPv6 Neighbor Discovery • RFC 4893 BGP Support for Four-Octet AS Number Space • RFC 5082 Generalized TTL Security Mechanism (GTSM) • RFC 5880 Bidirectional Forwarding Detection (BFD) • RFC 5881 Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop) • RFC 5882 Generic Application of Bidirectional Forwarding Detection (BFD) • RFC 5883 Bidirectional Forwarding Detection (BFD) for Multihop Paths • RFC 5942 IPv6 Neighbor Discovery • RFC 7432 BGP-EVPN Control Plane Signaling
MIBs	<ul style="list-style-type: none"> • RFC 4292 IP Forwarding MIB • RFC 4293 Management Information Base for the Internet Protocol (IP) • RFC 7331 BFD MIB • RFC 7331 BFD Helper MIB • RFC 3826 SNMP-USM-AES-MIB • RFC 4273 BGP-4 MIB • RFC 2863 The Interfaces Group MIB • RFC4750 OSPFv2.MIB 	<ul style="list-style-type: none"> • RFC 4133 Entity MIB (Version 3); rmon.mib, rmon2.mib, sflow_v5.mib, bridge.mib, pbridge.mib, qbridge.mib, rstp.mib • lag.mib, lldp.mib, lldp_ext_dot1.mib, lldp_ext_dot3.mib, • RFC 4022 TCP MIB • RFC 4113 UDP.MIB

Hardware support

SLX 9140/9240 Hardware and License SKUs

	Description
BR-SLX-9140-48V-AC-F	Brocade SLX 9140-48V Switch AC with Front to Back airflow 48x25GE/10GE/1GE + 6x100GE/40GE
BR-SLX-9140-48V-DC-F	Brocade SLX 9140-48V Switch DC with Front to Back airflow 48x25GE/10GE/1GE + 6x100GE/40GE
BR-SLX-9140-48V-AC-R	Brocade SLX 9140-48V Switch AC with Back to Front airflow 48x25GE/10GE/1GE + 6x100GE/40GE
BR-SLX-9140-48V-DC-R	Brocade SLX 9140-48V Switch DC with Back to Front airflow 48x25GE/10GE/1GE + 6x100GE/40GE
BR-SLX-9240-32C-AC-F	Brocade SLX 9240-32C Switch AC with Front to Back airflow 32x100GE/40GE
BR-SLX-9240-32C-DC-F	Brocade SLX 9240-32C Switch DC with Front to Back airflow 32x100GE/40GE
BR-SLX-9240-32C-AC-R	Brocade SLX 9240-32C Switch AC with Back to Front airflow 32x100GE/40GE
BR-SLX-9240-32C-DC-R	Brocade SLX 9240-32C Switch DC with Back to Front airflow 32x100GE/40GE
BR-SLX-9140-ADV-LIC	Advanced Software License
BR-SLX-9240-ADV-LIC	Advanced Software License

Supported power supplies

The following table lists the power supplies that are available for the devices supported in this release:

	Description
BR-ACPWR-650-F	SLX FIXED AC 650W POWER SUPPLY F2B AIRFL
BR-ACPWR-650-R	SLX FIXED AC 650W POWER SUPPLY B2F AIRFL
BR-DCPWR-650-F	SLX FIXED DC 650W POWER SUPPLY F2B AIRFL
BR-DCPWR-650-R	SLX FIXED DC 650W POWER SUPPLY B2F AIRFL
BR-3250CFM-FAN-F	SLX FIXED FAN AC F2B AIRFLOW
BR-3250CFM-FAN-R	SLX FIXED FAN AC B2F AIRFLOW

Supported optics

For a list of supported fiber-optic transceivers that are available from Brocade, refer to the latest version of the Brocade Optics Family Data Sheet available online at www.brocade.com.

Description	Orderable PN	BRCD P/N
1000Base-SX	E1MG-SX-OM	33210-100
1000Base-LX	E1MG-LX-OM	33211-100
1GE Copper SFP (Pseudo-Branded)	E1MG-TX	33002-100
1GE Copper SFP (BR-Branded)	XBR-000190	57-1000042-02
10GE USR SFP+	10G-SFPP-USR	57-1000130-01
10GE USR SFP+	10G-SFPP-USR	57-1000130-02
10GE SR SFP+, 85C	10G-SFPP-SR	57-0000075-01
10GE SR SFP+, 70C	10G-SFPP-SR	57-1000340-01
10GE SR SFP+, 70C	10G-SFPP-SR	57-1000340-01
10GE AOC 7M	10GE-SFPP-AOC-0701	57-1000273-01
10GE AOC 10M	10GE-SFPP-AOC-1001	57-1000274-01
10GE Direct Attach 5M Active	10G-SFPP-TWX-0501	58-1000023-01
10GE Direct Attach 1M Active	10G-SFPP-TWX-0101	58-1000026-01
10GE Direct Attach 3M Passive	10G-SFPP-TWX-P-0301	58-1000025-01
10GE Direct Attach 5M Passive	10G-SFPP-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	57-1000128-01
40GE BiDi QSFP+	40G-QSFP-SR-BIDI	57-1000339-01
40GE QSFP+ LR4, 10KM, 70C	40G-QSFP-LR4	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 QSFP-28 Active Optical (10m)	100G-QSFP-QSFP-AOC-1001	57-1000347-01

Software upgrade and downgrade

Image file names

Download the following images from www.brocade.com.

Image file name	Description
slxos17s.1.00a.tar.gz	SLX-OS 17s.1.00a software
slxos17s.1.00a_all_mibs.tar.gz	SLX-OS 17s.1.00a MIBS
slxos17s.1.00a.md5	SLX-OS md5 checksum

Migration path

- SLX-OS 17s.1.00 is the initial release of SLX-OS supporting SLX 9140 and SLX 9240 so migration is not applicable.

Upgrade and downgrade considerations

- SLX-OS 17s.1.00 is the initial release of SLX-OS supporting SLX 9140 and SLX 9240 so upgrade and downgrade considerations are not applicable.

Limitations and restrictions

Compatibility and interoperability

Platform:

25G

- 25G AN and LT is not supported

DIAG:

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

Multicast

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

Layer 2:

- In RSTP, when native vlan is shut, convergence is affected vlan traffic when interop with cisco devices.
- Hashing issues observed in may lead to Routes and Mac DB not getting programmed.

Layer3:

IPv6:

- Ipv6 routes with mask less than 64 not supported.
- IPv6 ECMP considers only last 32 bits (LSB) for hash calculation

VRRP:

- IPv6 and IPv4 VRRP sessions cannot be configured with the same VRRP group-ID on the same Layer3 interface.
- "show vrrp summary" and "show ipv6 vrrp summary" will display all sessions in default vrf.
- VRRP IPv6 sessions not supported in SLX9240

OSPF:

- Ospf3 authentication using IPsec not supported.

BGP:

- Extended community filters support is not available.

ACL/Port-Security:

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

Port-Security:

- OUI Mac Addresses are not supported.

Security:

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

QoS:

FB QoS - Cos Marking, DSCP Marking, Sflow, SPAN

- SPAN with L2 ACL in egress direction (SLX 9240)

QoS – WRED

- Byte counter is not available as part of show qos red statistics CLI for port-channel

QoS – Pause/PFC/Buffer Management

- PFC and Flow-control statistics are not supported due to hardware limitation
- Max allowed tx buffer in SLX9140 is 3000 and not 8000.

Traffic:

On the Brocade SLX 9140 and SLX 9240, traffic destined to 128.0.0.0/16 block is dropped.

Telemetry Streaming

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

PTP

- Rest API operational-state GET will not correctly display the output of the following PTP "show" commands:
 - show ptp clock foreign-masters record
 - show ptp corrections

No REST API URL for "show ptp port-interface Ethernet|port-channel"

REST API

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

NetConf

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

ARAS

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

sFlow

- If Port based and flow based sflow is enabled on an interface, Port based sflow takes effect
- Flow-based Sflow is not supported on port-channel and its member ports
- Port-based Sflow not supported on port-channel but supported on member ports
- There will be no counter samples when only flow based sampling is enabled.
- When multiple sampling rates are applied on an interface through multiple class-maps, the lowest sample-rate will take the effect.

Port mirroring

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

SNMP

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

Management

Out-of-band management port sends STP BPDU packets incorrectly in slxos17s.1.00, which would disable connected port due to BPDU guard configuration. This issue is resolved in this release slxos17s.1.00a

Defects

TSBs—Critical issues to consider prior to installing this release

Technical Support Bulletins (TSBs) provide detailed information about high priority defects or issues present in a release. The following sections specify all current TSBs that have been identified as being a risk to or resolved with this specific release. Please review carefully and refer to the complete TSB for relevant issues prior to migrating to this version of code. On <http://my.brocade.com> (sign-in required) this product documentation can be found by selecting **Support > Document Library** then under **Explore by Content Type** select **View All > Technical Service Bulletin** (note that TSBs are generated for all Brocade platforms and products, so not all TSBs apply to this release).

TSB issues resolved in SLX-OS 17s.1.00a

TSB	Summary
None	

TSB issues outstanding in SLX-OS 17s.1.00a

TSB	Summary
None	

Closed with code changes for SLX-OS v17s.1.00a

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of March 29, 2017 in SLX-OS v17s.1.00a.

Defect ID: DEFECT000629041	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: Static Routing (IPv6)
Symptom: Few IPV6 BFD sessions on the system in down state or do not get created.	
Condition: On cold reboot of the system with scaled BFD config of 250 sessions.	
Recovery: Remove configuration and re-configure BFD sessions.	

Defect ID: DEFECT000630360	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Security
Reported In Release: SLXOS 17s.1.00	Technology: ACLs - Access Control Lists
Symptom: Applying "permit ipv6 any any" ipv6 access-list on management interface blocks all incoming management traffic (telnet,ssh, ntp etc.)	
Condition: When IPv6 ACL with "permit ipv6 any any" rule applied on management interface.	
Workaround: Work around is to have permit rule for each of the application ports SLX(conf-ip6acl-ext)# do show running-config ipv6 access-list ipv6 access-list extended 456 seq 30 permit udp any eq ntp any seq 40 permit tcp any eq telnet any seq 50 permit tcp any eq 22 any seq 60 permit ipv6 any any	

Defect ID: DEFECT000632935	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: MCT - Multi-Chassis Trunking
Symptom: Control traffic across ICL link fails if a VLAN is removed while it still has VE configured.	
Condition: Remove a VLAN while it still has VE configured.	
Recovery: Issue below noscli commands: cluster no-deploy cluster deploy	

Defect ID: DEFECT000633064	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17s.1.00	Technology: IGMP - Internet Group Management Protocol
Symptom: RSTP Reports are being sent from a port in discarding state	
Condition: After RSTP re-convergence, reports are being sent from a port in discarding state.	

Defect ID: DEFECT000633680	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17s.1.00	Technology: Hardware Monitoring
Symptom: 25G SR optics are identified as 'Copper Media', when 'show media' command is executed.	
Condition: Issue is seen with 25G SR optics are inserted and used.	

Defect ID: DEFECT000635306	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: MCT - Multi-Chassis Trunking
Symptom: May observe system reset while booting with saved scale BD configuration.	
Condition: copy scaled BD configuration file to the current running configuration.	

Defect ID: DEFECT000635491	
Technical Severity: Medium	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17s.1.00	Technology: Hardware Monitoring
Symptom: "show interface" on SLX9140, shows 25G for ports with default speed of 10G.	
Condition: On running "show interface" on SLX9140	

Defect ID: DEFECT000635785	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17s.1.00	Technology: Configuration Fundamentals
Symptom: With SLX9140, link may not come online if it shut within 5 seconds of being brought online	
Condition: With SLX9140, If physical interface is not completely online (typically 3-4s).	
Recovery: "shut" and "no shut" the interface	

Defect ID: DEFECT000636157	
Technical Severity: Medium	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: VLAN - Virtual LAN
Symptom: Scheduler config is not removed properly, if interface is member port of port-channel	
Condition: Removing member port from a port-channel which has Scheduler configuration.	

Defect ID: DEFECT000636175	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: MCT - Multi-Chassis Trunking
Symptom: MCT Status using REST may not respond	
Condition: On rare occurrence with SLX9240, while checking MCT status using REST API	
Workaround: Use SLXOS CLI "show cluster" to check MCT Status.	

Defect ID: DEFECT000636866	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17s.1.00	Technology: Software Installation & Upgrade
Symptom: System reset while cancelling ZTP before system comes to a stable state.	
Condition: When command "dhcp ztp cancel" is issued before system boot process is complete.	

Defect ID: DEFECT000637209	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: xSTP - Spanning Tree Protocols
Symptom: MSTP process trigger system restart on scaled MSTP/MCT configurations.	
Condition: On repeated cluster deploy and no deploy configuration.	

Closed without code changes for SLX-OS v17s.1.00a

None.

Known issues for SLX-OS v17s.1.00

This section lists open software defects with Critical, High, and Medium Technical Severity as of March 29 in SLX-OS 17s.1.00. The defects listed in this section also remain open for SLX-OS 17s.1.00a unless they are listed in the “Closed with Code changes for SLX-OS 17s.1.00a” section of these Release Notes.

Defect ID: DEFECT000610503	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17s.1.00	Technology: Hardware Monitoring
Symptom: Transceiver field under 'show media' command sometime shows invalid data.	
Condition: The issue is seen only when running 'show media' command on an interface with 100Gbps speed supported optics inserted.	

Defect ID: DEFECT000612076	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17s.1.00	Technology: Hardware Monitoring
Symptom: The output of the command show-media for some 25G SFP may show the transceiver value as zero.	
Condition: This issue will be seen when there is a 25G SFP media plugged into the device.	

Defect ID: DEFECT000623115	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17s.1.00	Technology: Hardware Monitoring
Symptom: With offline diagnostic, the external port loopback test with loopback plug fails on SLX9240 platform.	
Condition: This only happens in offline diagnostic.	
Workaround: Portloopbacktest for mode 1 is not supported. Will support the feature in SLX-OS 17s.1.01	

Defect ID: DEFECT000625516	
Technical Severity: Medium	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: IPv6 Addressing
Symptom: SNMP Trap is not generated for a VE interface 'no shut' operation.	
Condition: "no shut" command is issued on a VE interface.	
Recovery: Issue a "shut", "no shut" command for the VE interface.	

Defect ID: DEFECT000626004	
Technical Severity: Medium	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: VLAN - Virtual LAN
Symptom: The output of the command show-media for some 25G SFP may show the transceiver value as zero.	
Condition: This issue will be seen when there is a 25G SFP media plugged into the device.	

Defect ID: DEFECT000627390	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: IPv6 Addressing
Symptom: IPv6 nd address may not get suppressed by using this command.	
Condition: The issue is seen only when ipv6 nd address <address> suppress command is used.	

Defect ID: DEFECT000627992	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: DHCP - Dynamic Host Configuration Protocol
Symptom: Unable to set DHCP Relay address thru REST after configuring and deleting it through CLI.	
Condition: Configure DHCP Relay through CLI using "use vrf option" and deleting and re-adding through REST using ".".	

Defect ID: DEFECT000629041	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: Static Routing (IPv6)
Symptom: Few IPV6 BFD sessions on the system in down state or do not get created.	
Condition: On cold reboot of the system with scaled BFD config of 250 sessions.	
Recovery: Remove configuration and re-configure BFD sessions.	

Defect ID: DEFECT000629903	
Technical Severity: Medium	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: VRRPv3 - Virtual Router Redundancy Protocol Version 3
Symptom: Port-channel could not be added as the track interface to an IPv6 VRRPE session	
Condition: Through a NETCONF session adding a track interface to an IPv6 VRRPE session would not be possible.	
Workaround: Use CLI to do this configuration.	

Defect ID: DEFECT000629957	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: Static Routing (IPv4)
Symptom: In rare scale scenarios, multi-hop BFD session over loopback interfaces may flap.	
Condition: 'clear ip route all' is executed.	

Defect ID: DEFECT000630215	
Technical Severity: Medium	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: MCT - Multi-Chassis Trunking
Symptom: Error "%Error: Generic Vlan Classification Error3" is displayed on the console.	
Condition: When switchport mode is changed from trunk to trunk-no-default-native.	
Recovery: Do a "no switchport" and then try the same configuration.	

Defect ID: DEFECT000630360	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Security
Reported In Release: SLXOS 17s.1.00	Technology: ACLs - Access Control Lists
Symptom: Applying "permit ipv6 any any" ipv6 access-list on management interface blocks all incoming management traffic (telnet,ssh, ntp etc.)	
Condition: When IPv6 ACL with "permit ipv6 any any" rule applied on management interface.	
Workaround: Work around is to have permit rule for each of the application ports SLX(conf-ip6acl-ext)# do show running-config ipv6 access-list ipv6 access-list extended 456 seq 30 permit udp any eq ntp any seq 40 permit tcp any eq telnet any seq 50 permit tcp any eq 22 any seq 60 permit ipv6 any any	

Defect ID: DEFECT000630974	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: OSPF - IPv4 Open Shortest Path First
Symptom: OSPF External LSA's are not flushed.	
Condition: Changing the OSPF External LSA limit to 100.	
Workaround: Add a loopback address & export to OSPF. External LSA's will be flushed.	

Defect ID: DEFECT000631251	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Security
Reported In Release: SLXOS 17s.1.00	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: DEFECT000631497	
Technical Severity: Medium	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: LAG - Link Aggregation Group
Symptom: In a scaled PO config "show interface switchport" using REST get request does not display all interface configurations.	
Condition: REST for "show interface switchport" is not displaying the physical interface details and its not having the <has-more> tag for indicating its not full output.	

Defect ID: DEFECT000631502	
Technical Severity: Medium	Probability: Low
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17s.1.00	Technology: SNMP - Simple Network Management Protocol
Symptom: The objects tcpConnectionLocalAddress and tcpConnectionRemAddress which are INDICES to the table tcpConnectionTable show up in reverse order when queried as part of the objects in this table.	
Condition: This is limited to objects tcpConnectionLocalAddress and tcpConnectionRemAddress in the tcpConnectionTable	

Defect ID: DEFECT000631738	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: OSPFv3 - IPv6 Open Shortest Path First
Symptom: Not able to create any NSSA in OSPFv3 using REST API.	
Condition: Configuring NSSA through REST interface.	
Example: Following http POST request will fail with response as bad request.	
<pre>curl -v -X POST -d "<nssa />" -u admin:password http://<IP>:80/rest/config/running/ipv6/router/ospf/default-vrf/area/<ID></pre>	
Workaround: Use CLI to configure OSPFv3 NSSA instead of REST.	

Defect ID: DEFECT000631758	
Technical Severity: Medium	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: VLAN - Virtual LAN
Symptom: Error "N O T A K N O W N R e s o u r c e I d" will be displayed when BD is configured.	
Condition: This error will be displayed on SLX9240 platform when a BD is configured and has ID greater than 3566.	

Defect ID: DEFECT000631903	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: MCT - Multi-Chassis Trunking
Symptom: A logical interface will not be added to a bridge-domain	
Condition: An error will be displayed to user when logical interface is added to a bridge-domain	
Recovery: Do a "no switchport" on the parent interface and try configuring the logical interface.	

Defect ID: DEFECT000632466	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: OSPF - IPv4 Open Shortest Path First
Symptom: Changing the "admin distance" from 255 to default is not reflected.	
Condition: Setting "admin distance" for intra-area routes to default after configuring max value is not working.	

Defect ID: DEFECT000632766	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17s.1.00	Technology: SNMP - Simple Network Management Protocol
Symptom: SNMP get of MIB ifHighSpeed for 100G interface returns value 99999	
Condition: SNMP get response for MIB ifHighSpeed on 100G interface will return 99999 instead of 100000	

Defect ID: DEFECT000632935	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: MCT - Multi-Chassis Trunking
Symptom: Control traffic across ICL link fails if a VLAN is removed while it still has VE configured.	
Condition: Remove a VLAN while it still has VE configured.	
Recovery: Issue below noscli commands: cluster no-deploy cluster deploy	

Defect ID: DEFECT000633064	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: IP Multicast
Reported In Release: SLXOS 17s.1.00	Technology: IGMP - Internet Group Management Protocol
Symptom: RSTP Reports are being sent from a port in discarding state	
Condition: After RSTP re-convergence, reports are being sent from a port in discarding state.	

Defect ID: DEFECT000633144	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: VLAN - Virtual LAN
Symptom: SLX-9140 unable to achieve PTP time sync in a 4-hop PTP network	
Condition: With SLX-9140, 4 hop PTP network	
Workaround: Modifying PTP sync and delay-request interval from -4 to -2 and restarting the external stratum 2 grandmaster clock	

Defect ID: DEFECT000633320	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: xSTP - Spanning Tree Protocols
Symptom: Higher priority multicast traffic may not be prioritized when there is high rate of lower priority BUM traffic.	
Condition: High rates of lower priority BUM traffic.	
Recovery: An Ingress ACL entry to drop the packets (Loop Traffic) that's causing the loop, can recover the system.	

Defect ID: DEFECT000633680	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17s.1.00	Technology: Hardware Monitoring
Symptom: 25G SR optics are identified as 'Copper Media', when 'show media' command is executed.	
Condition: Issue is seen with 25G SR optics are inserted and used.	

Defect ID: DEFECT000633721	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17s.1.00	Technology: CLI - Command Line Interface
Symptom: Creation of flow-based SPAN session with port-channel as destination fails.	
Condition: When a port-channel is set as the destination in a flow-based SPAN session, the command does not go through.	
Workaround: Use physical interface as destination.	

Defect ID: DEFECT000633863	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: MCT - Multi-Chassis Trunking
Symptom: MAC learnt on a client interface will be shown as a dynamic entry.	
Condition: When a bridge-domain is added to MCT cluster before creating it, then this issue will be observed.	
Recovery: "shut/no shut" on the client interface.	

Defect ID: DEFECT000634014	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: xSTP - Spanning Tree Protocols
Symptom: After software upgrade, port channel may display RTPT DSC state. Rarely seen after an upgrade and reload.	
Condition: Port channel with RSTP enabled when executing "show spann br".	
Recovery: "shut", "no-shut" or "disable" and "enable" RSTP.	

Defect ID: DEFECT000634179	
Technical Severity: Medium	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: IP Addressing
Symptom: route gets filtered from the routing database when the next hops lies within the route's subnet	
Condition: route add with next hop falls under the subnet prefix	

Defect ID: DEFECT000634478	
Technical Severity: Medium	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17s.1.00	Technology: Configuration Fundamentals
Symptom: Support save failure is not logged when saving to USB.	
Condition: When support save is triggered to copy to USB, but the USB device is not connected.	
Workaround: Support save can be triggered and saved to remote host.	

Defect ID: DEFECT000634550	
Technical Severity: High	Probability: High
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: VLAN - Virtual LAN
Symptom: Traffic on VLAN 1 on a logical interface with BD enabled MAC's will not be learnt or flooded.	
Condition: When user tries to change the switchport mode from "switchport mode trunk-no-default-native" to "switchport mode trunk mode".	
Recovery: Do "no switchport", "switchport" on that interface.	

Defect ID: DEFECT000634637	
Technical Severity: Medium	Probability: Low
Product: Brocade SLX-OS	Technology Group: Security
Reported In Release: SLXOS 17s.1.00	Technology: TACACS & TACACS+
Symptom: If there exist same user locally and in the TACACS+ server with different roles and user is authenticated using TACACS+ server then "show user" command will show local user role instead of TACACS+ provided user role. This is just a display issue. The TACACS+ authenticated user will function with the role provided by the TACACS+ server.	
Condition: Same user with different roles should exist locally and on TACACS+ server. □	

Defect ID: DEFECT000634734	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17s.1.00	Technology: CLI - Command Line Interface
Symptom: Displays more than configured terminal length.	
Condition: When pipe command " " is used to filter.	
Workaround: show running-config command should be used in conjunction with 'include' option to search for occurrence of particular string.	

Defect ID: DEFECT000634887	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: VRRPv2 - Virtual Router Redundancy Protocol Version 2
Symptom: VRRP MAC's are not synced between master and backup when ARP packets are received at high rate via ICL link between MCT node.	
Condition: ARP packets are received at high rate and flooded out to MCT ICL link.	
Workaround: 1. Enable SPF for all vrrp sessions 2. Do not configure BFD over ICL	
Recovery: Issue "shut", "no shut" on master interface.	

Defect ID: DEFECT000634923	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: xSTP - Spanning Tree Protocols
Symptom: On MSTP on MCT, MAPT role was shown instead of RTPT for local MST regions. Also, Cisco nodes with flavor other than MSTP needs to be configured and should be part of the topology.	
Condition: BPDU's from Cisco are getting flooded into the cluster and onto the nodes which are not directly connected to Cisco. Hence MAPT role is seen because non MSTP bpdus are received in MSTP regions.	
Workaround: Cisco interop enable command needs to be configured on the nodes which are not directly connected to Cisco.	
Recovery: Cisco interop enable command needs to be configured on all the nodes in the topology.	

Defect ID: DEFECT000634943	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: VLAN - Virtual LAN
Symptom: Response to 'show -config' command will be slow	
Condition: Response to 'show running-config' command will be slow when (a) snmpwalk, (b) telemetry streaming and (c) REST API running in parallel	
Workaround: Stop REST API temporarily while running 'show running-config' through CLI	

Defect ID: DEFECT000634945	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Network Automation and Orchestration
Reported In Release: SLXOS 17s.1.00	Technology: YANG
Symptom: Rest API operational-state GET is not correctly displaying the output of the following PTP "show" commands 1. show ptp clock foreign-masters record 2. show ptp corrections	
Condition: Using REST API to issue PTP show commands	
Workaround: Use CLI "show ptp"	

Defect ID: DEFECT000634975	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: IP Addressing
Symptom: Under conditions of multi dimensional scale and deleting interfaces, routing component (ribmgr) may run out of memory with error messages (5066 failed to refresh). System may become non responsive.	
Condition: Deleting interface under conditions of multi dimensional scale	

Defect ID: DEFECT000635053	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17s.1.00	Technology: Hardware Monitoring
Symptom: With offline diagnostic LED test, if user first turns LED off and then on for all ports, then the next LED off command does not take effect.	
Condition: This problem only happens on LED tests in offline diagnostic when user first runs loopback test before LED tests without power-cycling the switch in between.	
Workaround: Power-cycle the switch after running loopback or system verification test in offline diagnostic will prevent this problem.	

Defect ID: DEFECT000635106	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: xSTP - Spanning Tree Protocols
Symptom: In certain scenarios where MCT is UP in one node and down on another node; STP's port role could be displayed as DISABLED in the node where MCT is down.	
Condition: This issue can happen only if MCT is DOWN in one node of the cluster and UP in another node of the cluster.	
Workaround: When the MCT becomes UP, correct port role will be displayed in both nodes of the cluster	

Defect ID: DEFECT000635251	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: VLAN - Virtual LAN
Symptom: System may undergo unexpected reload	
Condition: PTP is configured and more than 4000 vlans are configured	

Defect ID: DEFECT000635291	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17s.1.00	Technology: Hardware Monitoring
Symptom: Some times after executing bladevershow or fanshow commands, kernel logs can indicate problems in allocating warm memory	
Condition: Rarely observed.	
Workaround: No obvious instabilities or impact to functionality reported.	
Recovery: No obvious instabilities or impact to functionality reported.	

Defect ID: DEFECT000635306	
Technical Severity: High	Probability: Low
Product: Brocade SLX-OS	Technology Group: Layer 2 Switching
Reported In Release: SLXOS 17s.1.00	Technology: MCT - Multi-Chassis Trunking
Symptom: May observe system reset while booting with saved scale BD configuration.	
Condition: copy scaled BD configuration file to the current running configuration.	

Defect ID: DEFECT000635491	
Technical Severity: Medium	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Monitoring
Reported In Release: SLXOS 17s.1.00	Technology: Hardware Monitoring
Symptom: "show interface" on SLX9140, shows 25G for ports with default speed of 10G.	
Condition: On running "show interface" on SLX9140	

Defect ID: DEFECT000635639	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: SLXOS 17s.1.00	Technology: Static Routing (IPv4)
Symptom: Some of the IPv6 sessions on the system after reboot or upgrade remain in the down state or do not get created.	
Condition: On rare occurrence, upgrade of the system with scaled BFD config of 250 sessions, some of the IPv6 sessions are not created.	
Recovery: Unconfigure and reconfigure of the BFD session will get the sessions working.	

Defect ID: DEFECT000635785	
Technical Severity: High	Probability: Medium
Product: Brocade SLX-OS	Technology Group: Management
Reported In Release: SLXOS 17s.1.00	Technology: Configuration Fundamentals
Symptom: With SLX9140, link may not come online if it shut within 5 seconds of being brought online	
Condition: With SLX9140, If physical interface is not completely online (typically 3-4s).	
Recovery: "shut" and "no shut" the interface	