



# Extreme SLX-OS Scale and Standards Matrix, 20.5.2

Supporting ExtremeRouting and ExtremeSwitching  
SLX 9740, SLX 9640, SLX 9540, SLX 9250, SLX 9150,  
Extreme 8820, Extreme 8720, and Extreme 8520

9037848-00 AA  
July 2023



Copyright © 2023 Extreme Networks, Inc. All rights reserved.

## Legal Notice

Extreme Networks, Inc. reserves the right to make changes in specifications and other information contained in this document and its website without prior notice. The reader should in all cases consult representatives of Extreme Networks to determine whether any such changes have been made.

The hardware, firmware, software or any specifications described or referred to in this document are subject to change without notice.

## Trademarks

Extreme Networks and the Extreme Networks logo are trademarks or registered trademarks of Extreme Networks, Inc. in the United States and/or other countries.

All other names (including any product names) mentioned in this document are the property of their respective owners and may be trademarks or registered trademarks of their respective companies/owners.

For additional information on Extreme Networks trademarks, see: [www.extremenetworks.com/company/legal/trademarks](http://www.extremenetworks.com/company/legal/trademarks)

## Open Source Declarations

Some software files have been licensed under certain open source or third-party licenses.

End-user license agreements and open source declarations can be found at: <https://www.extremenetworks.com/support/policies/open-source-declaration/>



# Table of Contents

---

|                                                                             |           |
|-----------------------------------------------------------------------------|-----------|
| <b>Preface.....</b>                                                         | <b>4</b>  |
| Text Conventions.....                                                       | 4         |
| Documentation and Training.....                                             | 5         |
| Open Source Declarations.....                                               | 6         |
| Training.....                                                               | 6         |
| Help and Support.....                                                       | 6         |
| Subscribe to Product Announcements.....                                     | 7         |
| Send Feedback.....                                                          | 7         |
| <b>About This Document.....</b>                                             | <b>8</b>  |
| What's New in this Document .....                                           | 8         |
| Supported Hardware.....                                                     | 8         |
| <b>RFC Compliance.....</b>                                                  | <b>10</b> |
| General Protocols.....                                                      | 10        |
| BGPv4.....                                                                  | 13        |
| Element Security.....                                                       | 16        |
| Open Shortest Path First .....                                              | 17        |
| Intermediate System to Intermediate System.....                             | 18        |
| IPv4 Multicast.....                                                         | 19        |
| Quality of Service .....                                                    | 20        |
| IPv6 Core.....                                                              | 20        |
| IPv6 Routing.....                                                           | 22        |
| Multiprotocol Label Switching.....                                          | 23        |
| Layer 2 Virtual Private Network and Pseudowire Emulation Edge to Edge ..... | 24        |
| Manageability and Visibility.....                                           | 26        |
| <b>SLX-OS IEEE standards compliance.....</b>                                | <b>32</b> |
| IEEE Standards Compliance Matrix .....                                      | 32        |
| <b>Scalability Matrixes.....</b>                                            | <b>35</b> |
| SLX 9740, SLX 9640, SLX 9540, and Extreme 8820 Scalability Comparison.....  | 35        |
| SLX 9740/Extreme 8820 Scalability.....                                      | 43        |
| SLX 9640 and SLX 9540 Scalability .....                                     | 46        |
| SLX 9150, SLX 9250, Extreme 8520, and Extreme 8720 Scalability .....        | 47        |



# Preface

---

Read the following topics to learn about:

- The meanings of text formats used in this document.
- Where you can find additional information and help.
- How to reach us with questions and comments.

## Text Conventions

---

Unless otherwise noted, information in this document applies to all supported environments for the products in question. Exceptions, like command keywords associated with a specific software version, are identified in the text.

When a feature, function, or operation pertains to a specific hardware product, the product name is used. When features, functions, and operations are the same across an entire product family, such as ExtremeSwitching switches or SLX routers, the product is referred to as *the switch* or *the router*.

**Table 1: Notes and warnings**

| Icon                                                                                | Notice type | Alerts you to...                                        |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------|
|  | Tip         | Helpful tips and notices for using the product          |
|  | Note        | Useful information or instructions                      |
|  | Important   | Important features or instructions                      |
|  | Caution     | Risk of personal injury, system damage, or loss of data |
|  | Warning     | Risk of severe personal injury                          |

**Table 2: Text**

| Convention                             | Description                                                                                                                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| screen displays                        | This typeface indicates command syntax, or represents information as it is displayed on the screen.                                                                                                             |
| The words <i>enter</i> and <i>type</i> | When you see the word <i>enter</i> in this guide, you must type something, and then press the Return or Enter key. Do not press the Return or Enter key when an instruction simply says <i>type</i> .           |
| <b>Key</b> names                       | Key names are written in boldface, for example <b>Ctrl</b> or <b>Esc</b> . If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press <b>Ctrl+Alt+Del</b> |
| <i>Words in italicized type</i>        | Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles.                                                      |
| <b>NEW!</b>                            | New information. In a PDF, this is searchable text.                                                                                                                                                             |

**Table 3: Command syntax**

| Convention                         | Description                                                                                                                                                                              |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>bold</b> text                   | Bold text indicates command names, keywords, and command options.                                                                                                                        |
| <i>italic</i> text                 | Italic text indicates variable content.                                                                                                                                                  |
| [ ]                                | Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.                                                    |
| { <b>x</b>   <b>y</b>   <b>z</b> } | A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.                                                            |
| <b>x</b>   <b>y</b>                | A vertical bar separates mutually exclusive elements.                                                                                                                                    |
| < >                                | Nonprinting characters, such as passwords, are enclosed in angle brackets.                                                                                                               |
| ...                                | Repeat the previous element, for example, <i>member[member...]</i> .                                                                                                                     |
| \                                  | In command examples, the backslash indicates a “soft” line break. When a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash. |

## Documentation and Training

Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

[Hardware and Software Compatibility](#) for Extreme Networks products  
[Extreme Optics Compatibility](#)  
[Other Resources](#) such as articles, white papers, and case studies

## Open Source Declarations

Some software files have been licensed under certain open source licenses. Information is available on the [Open Source Declaration](#) page.

## Training

Extreme Networks offers product training courses, both online and in person, as well as specialized certifications. For details, visit the [Extreme Networks Training](#) page.

## Help and Support

---

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

### [Extreme Portal](#)

Search the GTAC (Global Technical Assistance Center) knowledge base; manage support cases and service contracts; download software; and obtain product licensing, training, and certifications.

### [The Hub](#)

A forum for Extreme Networks customers to connect with one another, answer questions, and share ideas and feedback. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.

### [Call GTAC](#)

For immediate support: (800) 998 2408 (toll-free in U.S. and Canada) or 1 (408) 579 2800. For the support phone number in your country, visit [www.extremenetworks.com/support/contact](http://www.extremenetworks.com/support/contact).

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

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

## Subscribe to Product Announcements

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

1. Go to [The Hub](#).
2. In the list of categories, expand the **Product Announcements** list.
3. Select a product for which you would like to receive notifications.
4. Select **Subscribe**.
5. To select additional products, return to the **Product Announcements** list and repeat steps 3 and 4.

You can modify your product selections or unsubscribe at any time.

## Send Feedback

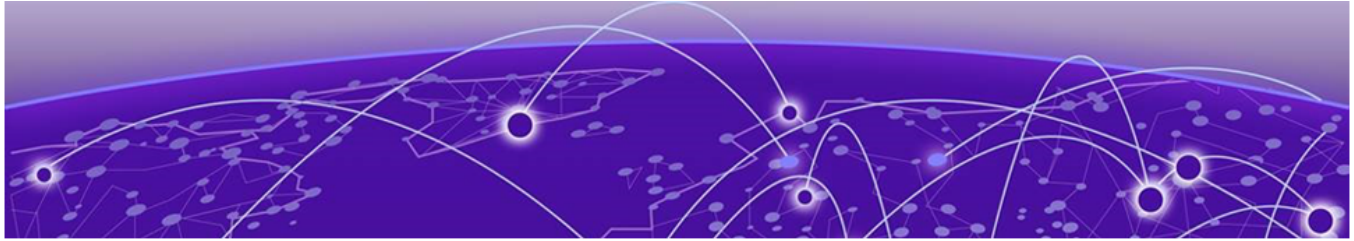
---

The User Enablement team at Extreme Networks has made every effort to ensure that this document is accurate, complete, and easy to use. We strive to improve our documentation to help you in your work, so we want to hear from you. We welcome all feedback, but we especially want to know about:

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

To send feedback, email us at [documentation@extremenetworks.com](mailto:documentation@extremenetworks.com).

Provide as much detail as possible including the publication title, topic heading, and page number (if applicable), along with your comments and suggestions for improvement.



# About This Document

---

[What's New in this Document](#) on page 8

[Supported Hardware](#) on page 8

## What's New in this Document

---

This document is released with Extreme SLX-OS 20.5.2 version.

For more information about the release, see the *Extreme SLX-OS Release Notes* for this version.

## Supported Hardware

---

SLX-OS 20.5.2 supports the following hardware platforms.

- Extreme 8820
- Extreme 8720
- Extreme 8520
- ExtremeSwitching SLX 9540
- ExtremeSwitching SLX 9250
- ExtremeSwitching SLX 9150
- ExtremeRouting SLX 9740
- ExtremeRouting SLX 9640



### Note

All configurations and software features that are applicable to SLX 9150 and SLX 9250 devices are also applicable for the Extreme 8520 and Extreme 8720 devices respectively.

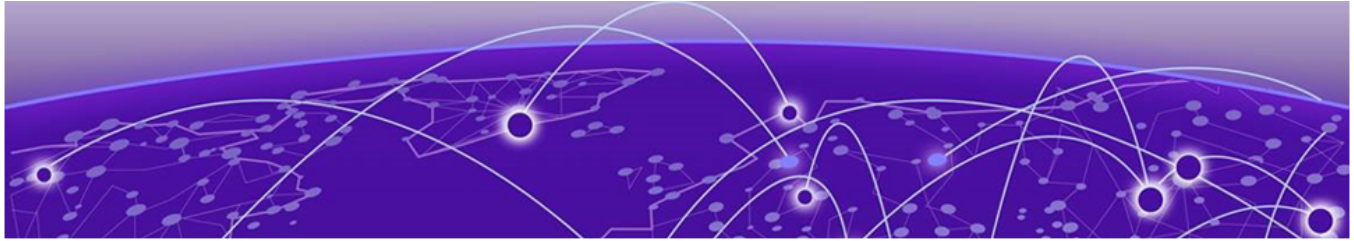
All configurations and software features that are applicable to SLX 9740 devices are also applicable for the Extreme 8820 devices.

The "Measured Boot with Remote Attestation" feature is only applicable to the Extreme 8520, Extreme 8720, and Extreme 8820 devices. It is not supported on the SLX 9150 and SLX 9250 devices.

**Note**

Although many software and hardware configurations are tested and supported for this release, documenting all possible configurations and scenarios is beyond this document's scope.

For information about other releases, see the documentation for those releases.



# RFC Compliance

---

[General Protocols](#) on page 10  
[BGPv4](#) on page 13  
[Element Security](#) on page 16  
[Open Shortest Path First](#) on page 17  
[Intermediate System to Intermediate System](#) on page 18  
[IPv4 Multicast](#) on page 19  
[Quality of Service](#) on page 20  
[IPv6 Core](#) on page 20  
[IPv6 Routing](#) on page 22  
[Multiprotocol Label Switching](#) on page 23  
[Layer 2 Virtual Private Network and Pseudowire Emulation Edge to Edge](#)  
 on page 24  
[Manageability and Visibility](#) on page 26

## General Protocols

---

| RFC Number | RFC Name                                 | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 768    | User Datagram Protocol (UDP)             | X                                            | X        | X        | X                     |
| RFC 791    | Internet Protocol (IP)                   | X                                            | X        | X        | X                     |
| RFC 792    | Internet Control Message Protocol (ICMP) | X                                            | X        | X        | X                     |
| RFC 793    | Transmission Control Protocol (TCP)      | X                                            | X        | X        | X                     |
| RFC 826    | ARP                                      | X                                            | X        | X        | X                     |
| RFC 894    | IP over Ethernet                         | X                                            | X        | X        | X                     |

| RFC Number | RFC Name                                           | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|----------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 903    | RARP                                               | X                                            | X        | X        | X                     |
| RFC 906    | TFTP Bootstrap                                     | X                                            | X        | X        | X                     |
| RFC 950    | Subnet                                             | X                                            | X        | X        | X                     |
| RFC 951    | BootP                                              | X                                            | X        | X        | X                     |
| RFC 1027   | Proxy ARP                                          | X                                            | X        | X        | X                     |
| RFC 1042   | Standard for the Transmission of IP                | X                                            | X        | X        | X                     |
| RFC 1122   | Requirements for Internet Hosts                    | X                                            | X        | X        | X                     |
| RFC 1166   | Internet Numbers                                   | X                                            | X        | X        | X                     |
| RFC 1542   | BootP Extensions                                   | X                                            | X        | X        | X                     |
| RFC 1591   | DNS (client)                                       | X                                            | X        | X        | X                     |
| RFC 1812   | Requirements for IP Version 4 Routers              | X                                            | X        | X        | X                     |
| RFC 1858   | Security Considerations for IP Fragment Filtering  | X                                            | X        | X        | X                     |
| RFC 2131   | BootP/DHCP Helper                                  | X                                            | X        | X        | X                     |
| RFC 2784   | Generic Routing Encapsulation (GRE)                | N/A                                          | X        | X        | X                     |
| RFC 2819   | RMON Groups 1, 2, 3, 9                             | X                                            | X        | X        | X                     |
| RFC 3021   | Using 31-Bit Prefixes on IPv4 Point-to-Point Links | X                                            | X        | X        | X                     |
| RFC 3046   | DHCP Relay Agent Information Option                | X                                            | X        | X        | X                     |

| RFC Number | RFC Name                                                                     | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|------------------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 3232   | Assigned Numbers                                                             | X                                            | X        | X        | X                     |
| RFC 3527   | Link Selection Sub Option for the Relay Agent Information Option for DHCPv4  | X                                            | X        | X        | X                     |
| RFC 3633   | IPv6 Prefix Options for Dynamic Host Configuration Protocol (DHCP) version 6 | X                                            | X        | X        | X                     |
| RFC 3768   | Virtual Router Redundancy Protocol (VRRP)                                    | X                                            | X        | X        | X                     |
| RFC 4001   | INET-ADDRESS-MIB                                                             | X                                            | X        | X        | X                     |
| RFC 4632   | Classless Interdomain Routing (CIDR)                                         | X                                            | X        | X        | X                     |
| RFC 5880   | Bidirectional Forwarding Detection                                           | X                                            | X        | X        | X                     |
| RFC 5881   | Bidirectional Forwarding Detection for IPv4 and IPv6 (Single Hop)            | X                                            | X        | X        | X                     |
| RFC 5882   | Generic Application of Bidirectional Forwarding Detection                    | X                                            | X        | X        | X                     |
| RFC 5883   | Bidirectional Forwarding Detection for Multihop Paths                        | X                                            | X        | X        | X                     |

| RFC Number | RFC Name                                                                            | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|-------------------------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
|            | EVPN Interworking with IPVPN draft-ietf-bess-evpn-ipvpn-interworking-04             | N/A                                          | X        | X        | X                     |
|            | Interconnect Solution for EVPN Overlay networks draft-ietf-bess-dci-evpn-overlay-10 | N/A                                          | X        | X        | X                     |

## BGPv4

| RFC Number | RFC Name                                                       | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|----------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 1745   | OSPF Interactions                                              | X                                            | X        | X        | X                     |
| RFC 1772   | Application of BGP in the Internet                             | X                                            | X        | X        | X                     |
| RFC 1997   | Communities and Attributes                                     | X                                            | X        | X        | X                     |
| RFC 2385   | BGP Session Protection via TCP MD5                             | X                                            | X        | X        | X                     |
| RFC 2439   | Route Flap Dampening                                           | X                                            | X        | X        | X                     |
| RFC 2918   | Route Refresh Capability                                       | X                                            | X        | X        | X                     |
| RFC 3392   | Capability Advertisement                                       | X                                            | X        | X        | X                     |
| RFC 3682   | Generalized TTL Security Mechanism for eBGP Session Protection | X                                            | X        | X        | X                     |
| RFC 4271   | BGPv4                                                          | X                                            | X        | X        | X                     |
| RFC 4364   | BGP/MPLS IP Virtual Private Networks                           | N/A                                          | X        | X        | X                     |
| RFC 4456   | Route Reflection                                               | X                                            | X        | X        | X                     |

| RFC Number | RFC Name                                                  | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|-----------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 4486   | Sub codes for BGP Cease Notification Message              | X                                            | X        | X        | X                     |
| RFC 4724   | Graceful Restart Mechanism for BGP                        | X                                            | X        | X        | X                     |
| RFC 4760   | Multiprotocol Extensions for BGPv4                        | X                                            | X        | X        | X                     |
| RFC 5065   | BGP4 Confederations                                       | X                                            | X        | X        | X                     |
| RFC 5291   | Outbound Route Filtering Capability for BGP4              | X                                            | X        | X        | X                     |
| RFC 5396   | Textual Representation of Autonomous System (AS) Numbers  | X                                            | X        | X        | X                     |
| RFC 5575   | Dissemination of Flow Specification Rules (BGP Flow Spec) | N/A                                          | X        | X        | X                     |
| RFC 5668   | 4-Octet AS specific BGP Extended Community                | X                                            | X        | X        | X                     |
| RFC 6198   | Requirements for the Graceful Shutdown of BGP Sessions    | X                                            | X        | X        | X                     |
| RFC 6793   | BGP Support for Four-octet AS Number Space                | X                                            | X        | X        | X                     |
| RFC 8092   | BGP Large Community Attribute                             | X                                            | X        | X        | X                     |

| RFC Number                                                                           | RFC Name                                                                                   | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 8097                                                                             | BGP Prefix Origin Validation State Extended Community                                      | N/A                                          | X        | X        | X                     |
| RFC 8210                                                                             | Resource Public Key Infrastructure to Router Protocol                                      | N/A                                          | X        | X        | X                     |
| RFC 8326                                                                             | Graceful BGP Session Shutdown                                                              | X                                            | X        | X        | X                     |
| RFC 8481                                                                             | Clarifications to BGP Origin Validation Based on Resource Public Key Infrastructure (RPKI) | N/A                                          | X        | X        | X                     |
| Draft-ietf-rtgwg-bgp-pic-07.txt BGP Prefix Independent Convergence                   |                                                                                            | X                                            | X        | X        | X                     |
| sFlow BGP AS Path                                                                    |                                                                                            | X                                            | X        | X        | X                     |
| RFC 7432                                                                             | BGP MPLS Based Ethernet VPN                                                                | X                                            | N/A      | N/A      | N/A                   |
| IETF Draft describing inter-subnet forwarding support using BGP EVPN Control Plane   |                                                                                            | X                                            | N/A      | N/A      | N/A                   |
| IETF Draft describing advertisement of IP Prefix routes using BGP EVPN Control Plane |                                                                                            | X                                            | N/A      | N/A      | N/A                   |

## Element Security

| RFC Number                                     | RFC Name                                                         | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| AAA                                            |                                                                  | X                                            | X        | X        | X                     |
| Username/Password (Challenge and Response)     |                                                                  | X                                            | X        | X        | X                     |
| Bi-level Access Mode (Standard and EXEC Level) |                                                                  | X                                            | X        | X        | X                     |
| Role-based Access Control (RBAC)               |                                                                  | X                                            | X        | X        | X                     |
| RFC 2865                                       | RADIUS                                                           | X                                            | X        | X        | X                     |
| RFC 2866                                       | RADIUS Accounting                                                | X                                            | X        | X        | X                     |
| RFC 3162                                       | RADIUS and IPv6                                                  | X                                            | X        | X        | X                     |
| RFC 3986                                       | Uniform Resource Identifier (URI): Generic Syntax                | X                                            | X        | X        | X                     |
| RFC 4251                                       | Secure Shell (SSH) Protocol Architecture                         | X                                            | X        | X        | X                     |
| RFC 4253                                       | Secure Shell (SSH)                                               | X                                            | X        | X        | X                     |
| RFC 4346                                       | TLS 1.1                                                          | X                                            | X        | X        | X                     |
| RFC 4510 through 4519                          | LDAP/LDAP over TLS                                               | X                                            | X        | X        | X                     |
| RFC 4742                                       | Using the NETCONF Configuration Protocol over Secure Shell (SSH) | X                                            | X        | X        | X                     |
| RFC 5246                                       | TLS 1.2                                                          | X                                            | X        | X        | X                     |
| RFC 5280                                       | Internet X.509 PKI Certificates                                  | X                                            | X        | X        | X                     |
| RFC 5905                                       | NTP Version 4                                                    | X                                            | X        | X        | X                     |
| RFC 5961                                       | TCP Security                                                     | X                                            | X        | X        | X                     |

| RFC Number                                                                          | RFC Name                                                                         | SLX 9150/SLX 9250, Extreme 8520/ Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/ Extreme 8820 |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------|----------|----------|------------------------|
| RFC 6020                                                                            | YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF) | X                                             | X        | X        | X                      |
| RFC 6021                                                                            | Common YANG Data Types                                                           | X                                             | X        | X        | X                      |
| RFC 6241                                                                            | NETCONF Configuration Protocol (Partial)                                         | X                                             | X        | X        | X                      |
| RFC 6613                                                                            | RADIUS over TCP                                                                  | X                                             | X        | X        | X                      |
| RFC 6614                                                                            | Transport Layer Security (TLS) Encryption for RADIUS                             | X                                             | X        | X        | X                      |
| RFC 6749, 7515, 7519                                                                | OAuth2 - JSON Web Token (JWT)                                                    | X                                             | X        | X        | X                      |
| RFC 6960                                                                            | Internet X.509 PKI Certificates                                                  | X                                             | X        | X        | X                      |
| TACACS/TACACS+                                                                      |                                                                                  | X                                             | X        | X        | X                      |
| NTP client and NTP server                                                           |                                                                                  | X                                             | X        | X        | X                      |
| Protection against Denial of Service (DoS) attacks such as TCP SYN or Smurf Attacks |                                                                                  | X                                             | X        | X        | X                      |

## Open Shortest Path First

| RFC Number | RFC Name               | SLX 9150/SLX 9250, Extreme 8520/ Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/ Extreme 8820 |
|------------|------------------------|-----------------------------------------------|----------|----------|------------------------|
| RFC 1745   | OSPF Interactions      | X                                             | X        | X        | X                      |
| RFC 1765   | OSPF Database Overflow | X                                             | X        | X        | X                      |

| RFC Number | RFC Name                                         | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|--------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 2328   | OSPF v2                                          | X                                            | X        | X        | X                     |
| RFC 3101   | OSPF NSSA                                        | X                                            | X        | X        | X                     |
| RFC 3137   | OSPF Stub Router Advertisement                   | X                                            | X        | X        | X                     |
| RFC 3623   | Graceful OSPF Restart                            | X                                            | X        | X        | X                     |
| RFC 3630   | TE Extensions to OSPF v2                         | N/A                                          | X        | X        | X                     |
| RFC 4222   | Prioritized Treatment of Specific OSPF Version 2 | X                                            | X        | X        | X                     |
| RFC 5250   | OSPF Opaque LSA Option                           | X                                            | X        | X        | X                     |
| RFC 5709   | X                                                | X                                            | X        | X        | X                     |
| RFC 7166   | X                                                | X                                            | X        | X        | X                     |
| RFC 7474   | X                                                | X                                            | X        | X        | X                     |

## Intermediate System to Intermediate System

| RFC Number | RFC Name                                | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|-----------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 1142   | OSI IS-IS Intra-domain Routing Protocol | X                                            | X        | X        | X                     |
| RFC 1195   | Routing in TCP/IP and Dual Environments | X                                            | X        | X        | X                     |
| RFC 3277   | IS-IS Blackhole Avoidance               | X                                            | X        | X        | X                     |
| RFC 5120   | IS-IS Multi-Topology Support            | X                                            | X        | X        | X                     |

| RFC Number | RFC Name                                                         | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 5301   | Dynamic Host Name Exchange                                       | X                                            | X        | X        | X                     |
| RFC 5302   | Domain-wide Prefix Distribution                                  | X                                            | X        | X        | X                     |
| RFC 5303   | Three-Way Handshake for IS-IS Point-to-Point                     | X                                            | X        | X        | X                     |
| RFC 5304   | IS-IS Cryptographic Authentication (MD-5)                        | X                                            | X        | X        | X                     |
| RFC 5306   | Restart Signaling for IS-IS (helper mode)                        | X                                            | X        | X        | X                     |
| RFC 5309   | Point-to-point operation over LAN in link state routing protocol | X                                            | X        | X        | X                     |

## IPv4 Multicast

| RFC Number   | RFC Name             | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|--------------|----------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 1112     | IGMP v1              | X                                            | X        | X        | X                     |
| RFC 2236     | IGMP v2              | X                                            | X        | X        | X                     |
| RFC 3376     | IGMP v3              | X                                            | X        | X        | X                     |
| RFC 4601     | PIM-SM               | X                                            | X        | X        | X                     |
| RFC 4607     | PIM-SSM              | X                                            | X        | X        | X                     |
| RFC 4610     | Anycast RP using PIM | X                                            | X        | X        | X                     |
| RFC 5059     | BSR for PIM          | X                                            | X        | X        | X                     |
| PIM IPv4 MCT |                      | X                                            | X        | X        | N/A                   |

## Quality of Service

| RFC Number | RFC Name                                    | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|---------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 2474   | DiffServ Definition                         | X                                            | X        | X        | X                     |
| RFC 2475   | An Architecture for Differentiated Services | X                                            | X        | X        | X                     |
| RFC 2597   | Assured Forwarding PHB Group                | X                                            | X        | X        | X                     |
| RFC 2697   | Single Rate Three-Color Marker              | X                                            | X        | X        | X                     |
| RFC 2698   | A Two-Rate Three-Color Marker               | X                                            | X        | X        | X                     |
| RFC 3246   | An Expedited Forwarding PHB                 | X                                            | X        | X        | X                     |

## IPv6 Core

| RFC Number | RFC Name                                     | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|----------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 1887   | IPv6 unicast address allocation architecture | X                                            | X        | X        | X                     |
| RFC 1981   | IPv6 Path MTU Discovery                      | X                                            | X        | X        | X                     |
| RFC 2375   | IPv6 Multicast Address Assignments           | X                                            | X        | X        | X                     |
| RFC 2450   | Proposed TLA and NLA Assignment Rules        | X                                            | X        | X        | X                     |

| RFC Number | RFC Name                                              | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|-------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 2460   | IPv6 Specification                                    | X                                            | X        | X        | X                     |
| RFC 2464   | Transmission of IPv6 over Ethernet Networks           | X                                            | X        | X        | X                     |
| RFC 2471   | IPv6 Testing Address allocation                       | X                                            | X        | X        | X                     |
| RFC 2711   | IPv6 Router Alert Option                              | X                                            | X        | X        | X                     |
| RFC 3315   | Dynamic Host Configuration Protocol for IPv6 (DHCPv6) | X                                            | X        | X        | X                     |
| RFC 3587   | IPv6 Global Unicast Address Format                    | X                                            | X        | X        | X                     |
| RFC 3701   | IPv6 Testing Address allocation                       | X                                            | X        | X        | X                     |
| RFC 4193   | Unique Local IPv6 Unicast Addresses                   | X                                            | X        | X        | X                     |
| RFC 4291   | IPv6 Addressing architecture                          | X                                            | X        | X        | X                     |
| RFC 4301   | IP Security Architecture                              | X                                            | X        | X        | X                     |
| RFC 4303   | Encapsulating Security Payload (ESP)                  | X                                            | X        | X        | X                     |
| RFC 4305   | ESP and AH cryptography                               | X                                            | X        | X        | X                     |
| RFC 4443   | ICMPv6                                                | X                                            | X        | X        | X                     |
| RFC 4552   | Auth for OSPFv3 using AH/ESP                          | X                                            | X        | X        | X                     |

| RFC Number | RFC Name                                  | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|-------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 4835   | Cryptographic Alg. Req. for ESP           | X                                            | X        | X        | X                     |
| RFC 4861   | Neighbor Discovery for IPv6               | X                                            | X        | X        | X                     |
| RFC 4862   | IPv6 Stateless Address Auto-configuration | X                                            | X        | X        | X                     |
| RFC 8200   | IPv6 Specification                        | X                                            | X        | X        | X                     |
| RFC 8201   | IPv6 Path MTU Discovery                   | X                                            | X        | X        | X                     |

## IPv6 Routing

| RFC Number | RFC Name                                                   | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 2545   | Use of BGP-MP for IPv6                                     | X                                            | X        | X        | X                     |
| RFC 5308   | Routing IPv6 with IS-IS                                    | X                                            | X        | X        | X                     |
| RFC 5340   | OSPFv3 for IPv6                                            | X                                            | X        | X        | X                     |
| RFC 6164   | Using 127-Bit IPv6 Prefixes on Inter-Router Links          | X                                            | X        | X        | X                     |
| RFC 8106   | Support for IPv6 Router Advertisements with DNS Attributes | X                                            | X        | X        | X                     |

## Multiprotocol Label Switching

| RFC Number | RFC Name                                                   | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 2205   | RSVP v1 Functional Specification                           | N/A                                          | X        | X        | X                     |
| RFC 2209   | RSVP v1 Message Processing Rules                           | N/A                                          | X        | X        | X                     |
| RFC 2674   | P-BRIDGE-MIB                                               | N/A                                          | X        | X        | X                     |
| RFC 2702   | TE over MPLS                                               | N/A                                          | X        | X        | X                     |
| RFC 2961   | RSVP Refresh Overhead Reduction Extensions                 | N/A                                          | X        | X        | X                     |
| RFC 3031   | MPLS Architecture                                          | N/A                                          | X        | X        | X                     |
| RFC 3032   | MPLS Label Stack Encoding                                  | N/A                                          | X        | X        | X                     |
| RFC 3037   | LDP Applicability                                          | N/A                                          | X        | X        | X                     |
| RFC 3097   | RSVP Cryptographic Authentication                          | N/A                                          | X        | X        | X                     |
| RFC 3209   | RSVP-TE                                                    | N/A                                          | X        | X        | X                     |
| RFC 3478   | LDP Graceful Restart                                       | N/A                                          | X        | X        | X                     |
| RFC 3813   | MPLS-LSR-STD-MIB                                           | N/A                                          | X        | X        | X                     |
| RFC 3815   | MPLS-LDP-STD-MIB<br>MPLS-LDP-GENERIC-STD-MIB               | N/A                                          | X        | X        | X                     |
| RFC 4090   | Fast Re-Route for RSVP-TE for LSP Tunnels; partial support | N/A                                          | X        | X        | X                     |
| RFC 4379   | OAM                                                        | N/A                                          | X        | X        | X                     |

| RFC Number | RFC Name                                                           | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|--------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 4448   | Encapsulation Methods for Transport of Ethernet over MPLS Networks | N/A                                          | X        | X        | X                     |
| RFC 5036   | LDP Specification                                                  | N/A                                          | X        | X        | X                     |
| RFC 5305   | ISIS-TE                                                            | N/A                                          | X        | X        | X                     |
| RFC 5443   | LDP IGP Synchronization                                            | N/A                                          | X        | X        | X                     |
| RFC 5561   | LDP Capabilities                                                   | N/A                                          | X        | X        | X                     |
| RFC 5712   | MPLS traffic Engineering Soft Preemption                           | N/A                                          | X        | X        | X                     |
| RFC 5918   | LDP "Typed Wildcard" FEC                                           | N/A                                          | X        | X        | X                     |
| RFC 5919   | Signaling LDP Label Advertisement Completion                       | N/A                                          | X        | X        | X                     |

## Layer 2 Virtual Private Network and Pseudowire Emulation Edge to Edge

| RFC Number | RFC Name                                              | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|-------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 3343   | TTL Processing in MPLS Networks                       | N/A                                          | X        | X        | X                     |
| RFC 3985   | Pseudowire Emulation Edge to Edge (PWE3) Architecture | N/A                                          | X        | X        | X                     |

| RFC Number | RFC Name                                                                       | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------|--------------------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 4265   | VPN-TC-STD-MIB                                                                 | N/A                                          | X        | X        | X                     |
| RFC 4364   | BGP/MPLS IP Virtual Private Networks4                                          | N/A                                          | X        | X        | X                     |
| RFC 4447   | Pseudowire Setup and Maintenance using LDP                                     | N/A                                          | X        | X        | X                     |
| RFC 4448   | Encapsulation Methods for Transport of Ethernet Frames Over IP/MPLS Networks   | N/A                                          | X        | X        | X                     |
| RFC 4664   | Framework for Layer 2 Virtual Private Networks                                 | N/A                                          | X        | X        | X                     |
| RFC 4665   | Service Requirements for Layer 2 Provider-Provisioned Virtual Private Networks | N/A                                          | X        | X        | X                     |
| RFC 4762   | Virtual Private LAN Service (VPLS) Using LDP Signaling                         | N/A                                          | X        | X        | X                     |
| RFC 5542   | PW-TC-STD-MIB                                                                  | N/A                                          | X        | X        | X                     |
| RFC 5601   | IANA-PWE3-MIB<br>PW-STD-MIB                                                    | N/A                                          | X        | X        | X                     |
| RFC 6391   | Flow-Aware Transport of Pseudowires                                            | N/A                                          | X        | X        | X                     |

| RFC Number                                   | RFC Name                                                                                                                               | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 6870                                     | PW Preferential Forwarding Status Bit3                                                                                                 | N/A                                          | X        | X        | X                     |
| RFC 7348                                     | Virtual eXtensible Local Area Network (VXLAN): A Framework for Overlaying Virtualized Layer 2 Networks over Layer 3 Networks (Partial) | X                                            | X        | X        | X                     |
| RFC 8365                                     | A Network Virtualization Overlay Solution Using Ethernet VPN (EVPN) (partial)                                                          | X                                            | X        | X        | X                     |
| draft-sd-l2vpn-evpn-overlay-03               |                                                                                                                                        | X                                            | X        | X        | X                     |
| draft-ietf-bess-evpn-prefix-advertisement-11 |                                                                                                                                        | X                                            | X        | X        | X                     |

## Manageability and Visibility

| RFC Number                                                | RFC Name       | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|-----------------------------------------------------------|----------------|----------------------------------------------|----------|----------|-----------------------|
| Integrated industry-standard Command Line Interface (CLI) |                | X                                            | X        | X        | X                     |
| RFC 854                                                   | Telnet         | X                                            | X        | X        | X                     |
| RFC 1573                                                  | IANAifType-MIB | X                                            | X        | X        | X                     |

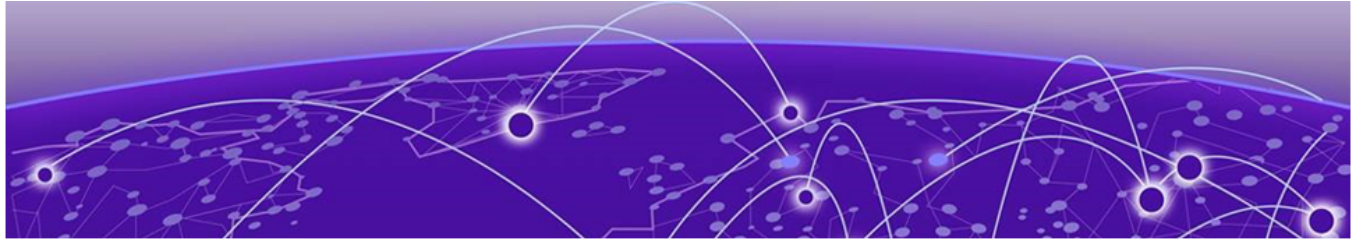
| RFC Number                                                                                                                                                      | RFC Name                                 | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 2068                                                                                                                                                        | HTTP                                     | X                                            | X        | X        | X                     |
| RFC 2571                                                                                                                                                        | SNMP-FRAMEWORK-MIB                       | X                                            | X        | X        | X                     |
| RFC 2572                                                                                                                                                        | SNMP-MPD-MIB                             | X                                            | X        | X        | X                     |
| RFC 2573                                                                                                                                                        | SNMP-TARGET-MIB<br>SNMP-NOTIFICATION-MIB | X                                            | X        | X        | X                     |
| RFC 2574                                                                                                                                                        | SNMP-USER-BASED-SM-MIB                   | X                                            | X        | X        | X                     |
| RFC 2575                                                                                                                                                        | SNMP-VIEW-BASED-ACM-MIB                  | X                                            | X        | X        | X                     |
| RFC 2576                                                                                                                                                        | SNMP-COMMUNITY-MIB                       | X                                            | X        | X        | X                     |
| RFC 2818                                                                                                                                                        | HTTPS                                    | X                                            | X        | X        | X                     |
| RFC 2665                                                                                                                                                        | Ethernet Interface MIB                   | X                                            | X        | X        | X                     |
| RFC 2677                                                                                                                                                        | IANA-ADDRESS-FAMILY-NUMBERS-MIB          | X                                            | X        | X        | X                     |
| IANA ifType-MIB [ <a href="https://www.iana.org/assignments/ianaiftype-mip/ianaiftype-mib">https://www.iana.org/assignments/ianaiftype-mip/ianaiftype-mib</a> ] |                                          | X                                            | X        | X        | X                     |
| RFC 2790                                                                                                                                                        | HOST-RESOURCES-MIB                       | X                                            | X        | X        | X                     |
| RFC 2856                                                                                                                                                        | HCNUM-TC                                 | X                                            | X        | X        | X                     |
| RFC 2863                                                                                                                                                        | IF-MIB                                   | X                                            | X        | X        | X                     |
| RFC 2932                                                                                                                                                        | IANA-RTPROTO-MIB                         | X                                            | X        | X        | X                     |
| RFC 3176                                                                                                                                                        | sFlow                                    | X                                            | X        | X        | X                     |
| sFlow extension to VXLAN                                                                                                                                        |                                          | X                                            | X        | X        | X                     |
| RFC 3273                                                                                                                                                        | RMON2-MIB                                | X                                            | X        | X        | X                     |

| RFC Number                                 | RFC Name                                                                                                      | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 3289                                   | DIFFSERV-DSCP-TC INTEGRATED-SERVICES-MIB<br>DIFFSERV-MIB                                                      | X                                            | X        | X        | X                     |
| RFC 3418                                   | SNMPv2-MIB                                                                                                    | X                                            | X        | X        | X                     |
| RFC 3419                                   | TRANSPORT-ADDRESS-MIB                                                                                         | X                                            | X        | X        | X                     |
| RFC 3584                                   | Coexistence between Version 1, Version 2, and Version 3 of the Internet-standard Network Management Framework | X                                            | X        | X        | X                     |
| RFC 3593                                   | PerfHist-TC-MIB                                                                                               | X                                            | X        | X        | X                     |
| RFC 3705                                   | HC-PerfHist-TC-MIB                                                                                            | X                                            | X        | X        | X                     |
| sFlow Version 5 and sFlow VxLAN extensions |                                                                                                               | X                                            | X        | X        | X                     |
| Secure Copy (SCP v2) SFTP                  |                                                                                                               | X                                            | X        | X        | X                     |
| SFTP                                       |                                                                                                               | X                                            | X        | X        | X                     |
| RFC 8040                                   | RESTCONF Protocol – PATCH, PUT, POST, DELETE support                                                          | X                                            | X        | X        | X                     |
| RFC 4022                                   | TCP-MIB                                                                                                       | X                                            | X        | X        | X                     |
| RFC 4087                                   | IP Tunnel MIB                                                                                                 | X                                            | X        | X        | X                     |
| RFC 4113                                   | UDP-MIB                                                                                                       | X                                            | X        | X        | X                     |
| RFC 4133                                   | Entity MIB                                                                                                    | X                                            | X        | X        | X                     |
| RFC 4253                                   | Secure Shell (SSH)                                                                                            | X                                            | X        | X        | X                     |
| RFC 4254                                   | Secure Shell (SSH) Connection Protocol                                                                        | X                                            | X        | X        | X                     |

| RFC Number                                                            | RFC Name                                                                                          | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 4344                                                              | SSH Transport Layer Encryption Modes                                                              | X                                            | X        | X        | X                     |
| RFC 4419                                                              | Diffie-Hellman Group Exchange for the Secure Shell (SSH) Transport Layer Protocol                 | X                                            | X        | X        | X                     |
| RFC 6187                                                              | X.509v3 Certificates for Secure Shell Authentication                                              | X                                            | X        | X        | X                     |
| draft-ietf-secsh-filexfer-13.txt<br>SSH File Transfer Protocol (SFTP) |                                                                                                   | X                                            | X        | X        | X                     |
| Secure Copy (SCP v2)                                                  |                                                                                                   | X                                            | X        | X        | X                     |
| RFC 4293                                                              | IP MIB                                                                                            | X                                            | X        | X        | X                     |
| RFC 4741                                                              | NETCONF (Partial)                                                                                 | X                                            | X        | X        | X                     |
| Chrome                                                                |                                                                                                   | X                                            | X        | X        | X                     |
| Curl                                                                  |                                                                                                   | X                                            | X        | X        | X                     |
| Tcpdump                                                               |                                                                                                   | X                                            | X        | X        | X                     |
| Wireshark                                                             |                                                                                                   | X                                            | X        | X        | X                     |
| SNMP v1/v2c/v3                                                        |                                                                                                   | X                                            | X        | X        | X                     |
| RFC 1157                                                              | Simple Network Management Protocol                                                                | X                                            | X        | X        | X                     |
| RFC 1908                                                              | Coexistence between Version 1 and Version 2 of the Internet-standard Network Management Framework | X                                            | X        | X        | X                     |

| RFC Number       | RFC Name                                                                             | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------------|--------------------------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| RFC 2578         | Structure of Management Information Version 2                                        | X                                            | X        | X        | X                     |
| RFC 2579         | Textual Conventions for SMIv2                                                        | X                                            | X        | X        | X                     |
| RFC 2580         | Conformance Statements for SMIv2                                                     | X                                            | X        | X        | X                     |
| RFC 3410         | Introduction and Applicability Statements for Internet Standard Management Framework | X                                            | X        | X        | X                     |
| RFC 3411         | An Architecture for Describing SNMP Management Frameworks                            | X                                            | X        | X        | X                     |
| RFC 3412         | Message Processing and Dispatching                                                   | X                                            | X        | X        | X                     |
| RFC 3413         | SNMP Applications                                                                    | X                                            | X        | X        | X                     |
| RFC 3414         | User-based Security Model                                                            | X                                            | X        | X        | X                     |
| RFC 3415         | View-based Access Control Model                                                      | X                                            | X        | X        | X                     |
| RFC 3416         | Version 2 of SNMP Protocol Operations                                                | X                                            | X        | X        | X                     |
| RFC 3417         | Transport Mappings                                                                   | X                                            | X        | X        | X                     |
| RFC 2819         | RMON Groups 1, 2, 3, 9                                                               | X                                            | X        | X        | X                     |
| IEEE8021-PAE-MIB |                                                                                      | X                                            | X        | X        | X                     |
| IEEE802 LLDP MIB |                                                                                      | X                                            | X        | X        | X                     |

| RFC Number                   | RFC Name                                         | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|------------------------------|--------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| IEEE8023-LAG-MIB             |                                                  | X                                            | X        | X        | X                     |
| RFC 1213                     | MIB-II                                           | X                                            | X        | X        | X                     |
| RFC 4292                     | IP-FORWARD-MIB                                   | X                                            | X        | X        | X                     |
| RFC 4188                     | BRIDGE-MIB                                       | X                                            | X        | X        | X                     |
| RFC 4750                     | OSPF-MIB                                         | X                                            | X        | X        | X                     |
| RFC 5643                     | OSPFv3 MIB                                       | X                                            | X        | X        | X                     |
| RFC 4363                     | Q-BRIDGE-MIB                                     | X                                            | X        | X        | X                     |
| RFC 3635                     | EtherLike-MIB                                    | X                                            | X        | X        | X                     |
| RFC 3811                     | MPLS TC STD MIB                                  | N/A                                          | X        | X        | X                     |
| RFC 3812                     | MPLS-TE-STD-MIB                                  | N/A                                          | X        | X        | X                     |
| RFC 3813                     | MPLS-LSR-STD-MIB                                 | N/A                                          | X        | X        | X                     |
| RFC 3826                     | SNMP-USM-AES MIB                                 | X                                            | X        | X        | X                     |
| RFC 4273                     | BGP4-MIB                                         | X                                            | X        | X        | X                     |
| draft-ietf-idr-bgp4-mibv2-15 |                                                  | X                                            | X        | X        | X                     |
| RFC 4318                     | RSTP-MIB                                         | X                                            | X        | X        | X                     |
| RFC 4444                     | ISIS-MIB                                         | X                                            | X        | X        | X                     |
| RFC 4878                     | DOT3-OAM-MIB                                     | X                                            | X        | X        | X                     |
| RFC 7257                     | VPLS-GENERIC-MIB<br>VPLS-LDP-MIB<br>VPLS-BGP-MIB | X                                            | X        | X        | X                     |
| RFC 7330                     | BFD-TC-STD-MIB<br>IANA-BFD-TC-STD-MIB            | X                                            | X        | X        | X                     |
| RFC 7331                     | BFD-STD-MIB                                      | X                                            | X        | X        | X                     |



# SLX-OS IEEE standards compliance

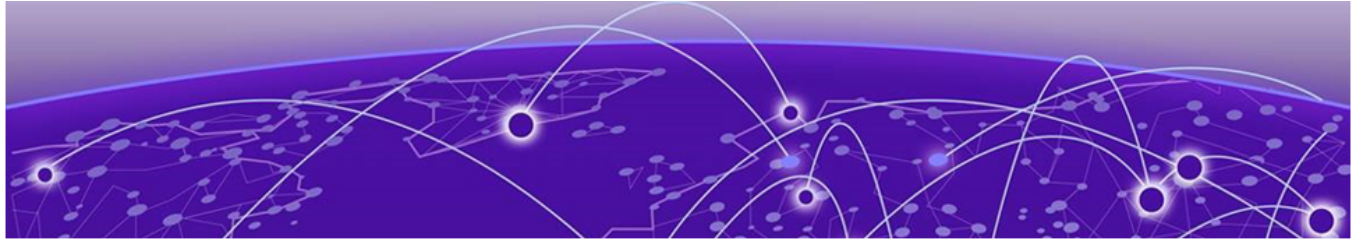
[IEEE Standards Compliance Matrix](#) on page 32

## IEEE Standards Compliance Matrix

| IEEE standard number  | IEEE standard name                                                                         | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|-----------------------|--------------------------------------------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| IEEE Std 802.1AB-2005 | LLDP-MIB<br>LLDP-EXT-DOT1-MIB<br>LLDP-EXT-DOT3-MIB                                         | X                                            | X        | X        | X                     |
| IEEE 802.1AG D8.1     | IEEE8021-CFM-MIB                                                                           | X                                            | X        | X        | X                     |
| IEEE 802.1AP          | IEEE8021-CFM-V2-MIB                                                                        | X                                            | X        | X        | X                     |
| IEEE 802.3-2005       | CSMA/CD Access Method and Physical Layer Specifications                                    | X                                            | X        | X        | X                     |
| IEEE 802.3AB          | 1000BASE-T                                                                                 | X                                            | X        | X        | X                     |
| IEEE 802.3AE          | 10G Ethernet                                                                               | X                                            | X        | X        | X                     |
| IEEE 802.3U           | 100BASE-TX,<br>100BASE-T4<br>100BASE-FX<br>Fast Ethernet at 100 Mbps with Auto-Negotiation | X                                            | X        | X        | X                     |
| IEEE 802.3X           | Flow Control                                                                               | X                                            | X        | X        | X                     |

| IEEE standard number | IEEE standard name                                       | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820                    |
|----------------------|----------------------------------------------------------|----------------------------------------------|----------|----------|------------------------------------------|
| IEEE 802.3Z          | 1000BASE-X Gigabit Ethernet over fiber optic at 1 Gbps   | X                                            | X        | X        | X                                        |
| IEEE 802.3AD         | LAG-MIB                                                  | X                                            | X        | X        | X                                        |
| IEEE 802.1Q          | Virtual Bridged VLANs                                    | X                                            | X        | X        | X                                        |
| IEEE 802.1D          | MAC Bridges                                              | X                                            | X        | X        | X                                        |
| IEEE 802.1W          | Rapid Spanning Tree Protocol                             | X                                            | X        | X        | X                                        |
| IEEE 802.1S          | Multiple Spanning Trees                                  | X                                            | X        | X        | X                                        |
| IEEE 802.1AG         | Connectivity Fault Management (CFM)                      | N/A                                          | X        | X        | X                                        |
| IEEE 802.3BA         | 100 Gigabit Ethernet                                     | X                                            | X        | X        | X                                        |
| IEEE 802.1AB         | Link Layer Discovery Protocol                            | X                                            | X        | X        | X                                        |
| IEEE 802.1X          | Port-Based Network Access Control                        | X                                            | X        | X        | X                                        |
| IEEE 802.3AH         | Ethernet in the First Mile Link OAM3                     | N/A                                          | X        | X        | X                                        |
| IEEE 8021            | PAE-MIB                                                  | X                                            | X        | X        | X                                        |
| ITU-T G.8013/Y.1731  | OAM functions and mechanisms for Ethernet-based networks | N/A                                          | X        | X        | X                                        |
| ITU-T G.8032         | Ethernet Ring Protection                                 | N/A                                          | X        | X        | 50ms protection switching not supported. |

| IEEE standard number                | IEEE standard name                                      | SLX 9150/SLX 9250, Extreme 8520/Extreme 8720 | SLX 9540 | SLX 9640 | SLX 9740/Extreme 8820 |
|-------------------------------------|---------------------------------------------------------|----------------------------------------------|----------|----------|-----------------------|
| MEF                                 | MEF-SOAM-TC-MIB                                         | X                                            | X        | X        | X                     |
| MEF                                 | MEF-SOAM-PM-MIB                                         | X                                            | X        | X        | X                     |
| IEEE Std 802.1AB-2009               | LLDP DOT1- BasicSet                                     | X                                            | X        | X        | X                     |
| 802.1Q-2018                         | LLDP ETS Recommendation TLV, LLDP PFC Configuration TLV | X                                            | N/A      | N/A      | N/A                   |
| IEEE 802.1Q-2018 clause 37/802.1Qaz | Enhanced Transmission Selection                         | X                                            | N/A      | N/A      | N/A                   |
| IEEE 802.1Q-2018 clause 36/802.1Qbb | Priority Flow Control                                   | X                                            | N/A      | N/A      | N/A                   |



# Scalability Matrixes

[SLX 9740, SLX 9640, SLX 9540, and Extreme 8820 Scalability Comparison](#) on page 35

[SLX 9740/Extreme 8820 Scalability](#) on page 43

[SLX 9640 and SLX 9540 Scalability](#) on page 46

[SLX 9150, SLX 9250, Extreme 8520, and Extreme 8720 Scalability](#) on page 47

## SLX 9740, SLX 9640, SLX 9540, and Extreme 8820 Scalability Comparison

This section describes scalability metrics that are common to the three platforms.

| Support Type                            | SLX 9740/Extreme 8820                                            | SLX 9640                                        | SLX 9540                                        |
|-----------------------------------------|------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| <b>LAYER 2 SWITCHING</b>                |                                                                  |                                                 |                                                 |
| Trunk groups supported                  | 77 groups for 1U (1 to 256 IDs) 153 groups for 2U (1 to 256 IDs) | Default profile: 256 groups with 64 ports       | Default profile: 256 groups with 64 ports       |
| Ports per trunk group                   | 64                                                               | 64                                              | 64                                              |
| Maximum LACP trunk threshold            | 64                                                               | 64                                              | 64                                              |
| Maximum MAC addresses per switch        | 600000 (default profile) 190000 (route profile)                  | 750000                                          | 750000                                          |
| Jumbo frames                            | 9216 bytes                                                       | 9216 bytes                                      | 9216 bytes                                      |
| Number of VLANs                         | 4096                                                             | 4096                                            | 4096                                            |
| Maximum bridge domains                  | 4000                                                             | 4000                                            | 4000                                            |
| <b>RSTP</b>                             |                                                                  |                                                 |                                                 |
| Maximum Spanning- Tree instances (RSTP) | RSTP is 1 instance only RPVST/PVST 128, MSTP 32                  | RSTP is 1 instance only RPVST/PVST 128, MSTP 32 | RSTP is 1 instance only RPVST/PVST 128, MSTP 32 |
| <b>MULTICAST</b>                        |                                                                  |                                                 |                                                 |
| Maximum IGMP v2/v3 L3 entries           | 16000                                                            | 16000                                           | 16000                                           |

| Support Type                                       | SLX 9740/Extreme 8820 | SLX 9640     | SLX 9540     |
|----------------------------------------------------|-----------------------|--------------|--------------|
| L2 multicast cache                                 | 16000                 | 16000        | 16000        |
| IPv4 software multicast cache for PIM/SM           | 20000                 | 20000        | 20000        |
| IPv4 hardware multicast entries                    | 20000                 | 20000        | 20000        |
| Maximum IGMP snooping VLANs                        | 500                   | 500          | 500          |
| Maximum static entries (IGMPv2) with uplink - IPv4 | 1000                  | 1000         | 1000         |
| Maximum static entries (IGMPv3) with uplink - IPv4 | 1000                  | 1000         | 1000         |
| Snoop multicast IGMP join/leave rate per port      | 1000 per sec          | 1000 per sec | 1000 per sec |
| IGMP join/leave rate (with PIM-SM)                 | 4000 per sec          | 4000 per sec | 4000 per sec |
| PIM SM maximum local receivers (IGMP)              | 4000                  | 4000         | 4000         |
| PIM SM maximum OIFs per system                     | 64000                 | 64000        | 64000        |
| PIM SM maximum OIFs per S,G                        | 128                   | 128          | 128          |
| Maximum VLAN replications per entry                | 128                   | 128          | 128          |
| Maximum multicast VRFs                             | 50                    | 50           | 50           |
| Maximum IGMP groups per system                     | 16000                 | 16000        | 16000        |
| Maximum IGMP groups per interface                  | 128                   | 128          | 128          |
| Maximum IGMP OIFs per system                       | 8000                  | 8000         | 8000         |
| Maximum multicast prefixes advertised by an RP     | 250                   | 250          | 250          |
| Maximum BSR RP per multicast domain                | 56                    | 56           | 56           |

| Support Type                                             | SLX 9740/Extreme 8820                           | SLX 9640                                    | SLX 9540                                    |
|----------------------------------------------------------|-------------------------------------------------|---------------------------------------------|---------------------------------------------|
| Maximum static RPs per system                            | 56                                              | 56                                          | 56                                          |
| Maximum RPset x RP per system                            | 56                                              | 56                                          | 56                                          |
| Maximum PIM Anycast RPs per system                       | 56                                              | 56                                          | 56                                          |
| Maximum Anycast RP peers per system                      | 8                                               | 8                                           | 8                                           |
| PIM fast hello                                           | Min Hello: 1 sec<br>Neighbor Removal: 3 sec     | Min Hello: 1 sec<br>Neighbor Removal: 3 sec | Min Hello: 1 sec<br>Neighbor Removal: 3 sec |
| Multicast ECMP paths                                     | 32                                              | 32                                          | 32                                          |
| <b>LAYER 3 FEATURES - IPv4</b>                           |                                                 |                                             |                                             |
| Maximum IP interfaces per system (IPv4, IPv6)            | 8000                                            | 4090                                        | 4090                                        |
| Maximum virtual Ethernet interfaces per system           | 8000                                            | 4090                                        | 4090                                        |
| Maximum ARP entries                                      | Default profile: 102000<br>Route profile: 95000 | 96000                                       | 96000                                       |
| Maximum static ARP entries                               | Default profile: 102000<br>Route profile: 95000 | 96000                                       | 96000                                       |
| Maximum directly connected host routes (or IP next-hops) | 64000                                           | 48000                                       | 48000                                       |
| Possible secondary IP addresses                          | 255                                             | 255                                         | 255                                         |
| Maximum loopback interfaces                              | 255                                             | 255                                         | 255                                         |
| Maximum OSPF areas (per VRF)                             | 200                                             | 200                                         | 200                                         |
| OSPF routers in a single area                            | 200                                             | 200                                         | 200                                         |
| OSPF adjacencies                                         | 200                                             | 200                                         | 200                                         |
| Maximum OSPF routes                                      | 100000                                          | 100000                                      | 100000                                      |
| Maximum static route entries                             | 32000                                           | 25000                                       | 25000                                       |

| Support Type                                                                     | SLX 9740/Extreme 8820                      | SLX 9640                 | SLX 9540                               |
|----------------------------------------------------------------------------------|--------------------------------------------|--------------------------|----------------------------------------|
| Maximum BGP peer groups                                                          | 1024                                       | 1024                     | 1024                                   |
| Maximum BGP routes in RIB                                                        | 9M in, 14M out                             | 9M in, 14M out           | 9M in, 14M out                         |
| BGP peers (IPv4 and IPv6 concurrent)                                             | 2400                                       | 2400                     | 2400                                   |
| BGP dynamic listen range supported (IPv4 and IPv6 concurrent including all VRFs) | 2400                                       | 2400                     | 2400                                   |
| Maximum BGP additional paths for received prefixes                               | 128                                        | 64                       | 64                                     |
| Maximum IS-IS routes                                                             | 25000                                      | 25000                    | 25000                                  |
| IS-IS adjacencies                                                                | Broadcast: 255 P2P: 1024                   | Broadcast: 255 P2P: 1024 | Broadcast: 255 P2P: 1024               |
| IS-IS LSPs                                                                       | 255                                        | 255                      | 255                                    |
| Maximum IPv4 routes                                                              | Default profile: 2M<br>Route profile: 3.5M | Default profile: 4M      | Default profile: 1M (with compression) |
| Maximum VEs per system                                                           | 8000                                       | 4000                     | 4000                                   |
| Maximum VRFs per system (BGP VRF IPv4/ IPv6)                                     | 1024                                       | 1024                     | 1024                                   |
| Maximum VRFs per system (OSPF VRF IPv4/IPv6)                                     | 1024                                       | 1024                     | 1024                                   |
| Maximum VRFs per system (static VRF IPv4/IPv6)                                   | 1024                                       | 1024                     | 1024                                   |
| IS-IS routers in a level                                                         | 255                                        | 255                      | 255                                    |
| Maximum ECMP paths                                                               | 128                                        | 64                       | 64                                     |
| VRRP/VRRPe instances per system (IPv4, IPv6)                                     | 1000                                       | 1000                     | 1000                                   |
| VRRP instances per IP interface                                                  | 10                                         | 16                       | 16                                     |
| VRRP/VRRPe instances with time scale                                             | 128                                        | 128                      | 128                                    |

| Support Type                        | SLX 9740/Extreme 8820                                                                                                                                                                                                                                  | SLX 9640                                                                                                                                                                                                                                               | SLX 9540                                                                                                                                                                                                                                               |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum GRE tunnels                 | 1024                                                                                                                                                                                                                                                   | 1024                                                                                                                                                                                                                                                   | 1024                                                                                                                                                                                                                                                   |
| Maximum IS-IS interfaces            | Broadcast: 255 P2P: 1024                                                                                                                                                                                                                               | Broadcast: 255 P2P: 1024                                                                                                                                                                                                                               | Broadcast: 255 P2P: 1024                                                                                                                                                                                                                               |
| <b>LAYER 3 FEATURES - IPv6</b>      |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                        |
| Maximum IPv6 static route entries   | 32000                                                                                                                                                                                                                                                  | 32000                                                                                                                                                                                                                                                  | 32000                                                                                                                                                                                                                                                  |
| Maximum IPv6 routes                 | Default profile: 2M<br>Route profile: 3.5M                                                                                                                                                                                                             | Default profile: 256000 routes v4-v6 profile: 700000 routes IPv6-route profile: 1M routes                                                                                                                                                              | OptiScale profile LPM: 64000 (routes except /47 and /48) LEM: 180000 (routes with /47 and /48 )                                                                                                                                                        |
| Maximum ND entries                  | Default profile: 102000 Route profile: 95000                                                                                                                                                                                                           | 32000                                                                                                                                                                                                                                                  | 32000                                                                                                                                                                                                                                                  |
| Maximum OSPFv3 routes               | 64000                                                                                                                                                                                                                                                  | 64000                                                                                                                                                                                                                                                  | 64000                                                                                                                                                                                                                                                  |
| Maximum OSPFv3 interfaces           | 256                                                                                                                                                                                                                                                    | 256                                                                                                                                                                                                                                                    | 256                                                                                                                                                                                                                                                    |
| Maximum OSPFv3 neighbors            | 256                                                                                                                                                                                                                                                    | 256                                                                                                                                                                                                                                                    | 256                                                                                                                                                                                                                                                    |
| Maximum OSPFv3 areas                | 10                                                                                                                                                                                                                                                     | 10                                                                                                                                                                                                                                                     | 10                                                                                                                                                                                                                                                     |
| Maximum BGPv6 routes in the RIB     | Same as IPv4                                                                                                                                                                                                                                           | Same as IPv4                                                                                                                                                                                                                                           | Same as IPv4                                                                                                                                                                                                                                           |
| Maximum BGPv6 neighbors             | 2400                                                                                                                                                                                                                                                   | 2400                                                                                                                                                                                                                                                   | 2400                                                                                                                                                                                                                                                   |
| Maximum DHCPv6 Delegated Prefixes   | Per System: <ul style="list-style-type: none"> <li>Maximum Scale - 20000</li> <li>Default Maximum Scale - 8000</li> </ul> Per Interface: <ul style="list-style-type: none"> <li>Maximum Scale - 20000</li> <li>Default Maximum Scale - 1000</li> </ul> | Per System: <ul style="list-style-type: none"> <li>Maximum Scale - 20000</li> <li>Default Maximum Scale - 8000</li> </ul> Per Interface: <ul style="list-style-type: none"> <li>Maximum Scale - 20000</li> <li>Default Maximum Scale - 1000</li> </ul> | Per System: <ul style="list-style-type: none"> <li>Maximum Scale - 20000</li> <li>Default Maximum Scale - 8000</li> </ul> Per Interface: <ul style="list-style-type: none"> <li>Maximum Scale - 20000</li> <li>Default Maximum Scale - 1000</li> </ul> |
| <b>BGP FLOWSPEC</b>                 |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                        |
| Maximum local flowspec rules alone  | 1000                                                                                                                                                                                                                                                   | 1000                                                                                                                                                                                                                                                   | 1000                                                                                                                                                                                                                                                   |
| Maximum remote flowspec rules alone | 1000                                                                                                                                                                                                                                                   | 1000                                                                                                                                                                                                                                                   | 1000                                                                                                                                                                                                                                                   |

| Support Type                                                                                                     | SLX 9740/Extreme 8820                      | SLX 9640                                   | SLX 9540                                   |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Maximum local and remote flowspec rules together                                                                 | 1000                                       | 1000                                       | 1000                                       |
| <b>BGP LARGE-COMMUNITY</b>                                                                                       |                                            |                                            |                                            |
| Maximum largecommunity that can be added/replaced/deleted for incoming route updates (NLRI) using set directive  | 32                                         | 32                                         | 32                                         |
| Maximum largecommunity standard/ extended ACL type                                                               | 1024 rules per list.<br>Max seq # is 65535 | 1024 rules per list.<br>Max seq # is 65535 | 1024 rules per list.<br>Max seq # is 65535 |
| Maximum largecommunity ACL that can be matched in route-map                                                      | 32                                         | 32                                         | 32                                         |
| Maximum largecommunity attributes that can be received per route update (including in bound set large community) | 64                                         | 64                                         | 64                                         |
| <b>MPLS</b>                                                                                                      |                                            |                                            |                                            |
| Maximum MPLS labels                                                                                              | 15000                                      | 15000                                      | 15000                                      |
| Maximum label stacking depth                                                                                     | 3                                          | 3                                          | 3                                          |
| Maximum target LDP sessions                                                                                      | 100                                        | 100                                        | 100                                        |
| Maximum ingress                                                                                                  | 5000                                       | 5000                                       | 5000                                       |
| Maximum transit LSPs                                                                                             | 20000 cross-connects                       | 20000 cross-connects                       | 20000 cross-connects                       |
| Maximum point-to-point per system with MCT                                                                       | 500                                        | 500                                        | 500                                        |
| Maximum point-to-multipoint per system with MCT                                                                  | 8000                                       | 8000                                       | 8000                                       |

| Support Type                                                        | SLX 9740/Extreme 8820                         | SLX 9640                                | SLX 9540                                |
|---------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|-----------------------------------------|
| Maximum endpoints per point-to-point per system                     | 1000                                          | 8000                                    | 8000                                    |
| Maximum endpoints per point-to-multipoint per system (non-MCT, MCT) | 20000                                         | 20000                                   | 20000                                   |
| Maximum point-to-multipoint MACs per system (max vpls mac table)    | Default profile: 600000 Route profile: 190000 | 750000                                  | 750000                                  |
| Total point-to-multipoint VC labels per system                      | 8000                                          | 8000                                    | 8000                                    |
| Maximum routes per VRF/VPN                                          | Default profile: 2M Route profile: 3M         | Same as the default VRF                 | 256000                                  |
| Maximum MPLS VPNs (IPv4) per system                                 | 512                                           | 512                                     | 512                                     |
| Maximum MPLS VPNs (IPv6) per system                                 | 512                                           | 512                                     | 512                                     |
| Maximum adaptive LSP (ingress/egress)                               | 5000                                          | 5000                                    | 5000                                    |
| Maximum FRR instances                                               | 5000 facility or 2000 1- to-1 detour          | 5000 facility or 2000 1- to-1 detour    | 5000 facility or 2000 1- to-1 detour    |
| Maximum point-to-multipoint LSP load balance                        | 16                                            | 16                                      | 16                                      |
| Maximum LDP ECMP paths                                              | 16                                            | 16                                      | 16                                      |
| RSVP LSP history support                                            | Max 32 events per LSP at ingress router       | Max 32 events per LSP at ingress router | Max 32 events per LSP at ingress router |
| Maximum autobandwidth templates                                     | 100                                           | 100                                     | 100                                     |
| Maximum recorded samples per autobandwidth LSP                      | 1500                                          | 1500                                    | 1500                                    |
| Single-hop LSP accounting                                           | 5000                                          | 5000                                    | 5000                                    |

| Support Type                                                              | SLX 9740/Extreme 8820       | SLX 9640                   | SLX 9540                   |
|---------------------------------------------------------------------------|-----------------------------|----------------------------|----------------------------|
| Maximum point-to-multipoint instances with IPv4/IPv6 VE VRF support (MCT) | 8000                        | 2600                       | 2600                       |
| Maximum bypass LSP per system                                             | 512                         | 512                        | 512                        |
| Maximum LDP sessions                                                      | 100                         | 100                        | 100                        |
| Maximum LDP FEC                                                           | 5000                        | 5000                       | 5000                       |
| <b>RATE LIMITING AND TRAFFIC POLICING FEATURES</b>                        |                             |                            |                            |
| Granularity                                                               | 22kbps                      | 22kbps                     | 22kbps                     |
| Rate-limiters/traffic policers per system                                 | 1000/32000                  | 1000/32000                 | 1000/32000                 |
| <b>ACL</b>                                                                |                             |                            |                            |
| Maximum named L2 ACL statements                                           | 2000                        | 2000                       | 2000                       |
| Maximum IP receive ACLs                                                   | 200                         | 200                        | 200                        |
| Maximum IPv6 receive ACLs                                                 | 50                          | 50                         | 50                         |
| Max configurable PBR route maps                                           | 200                         | 200                        | 200                        |
| <b>OAM</b>                                                                |                             |                            |                            |
| Maximum BFD sessions                                                      | 1000 (16 sessions multihop) | 250 (16 sessions multihop) | 250 (16 sessions multihop) |
| 802.1ag sessions                                                          | 4000                        | 4000                       | 4000                       |
| Y.1731 SLM/DM sessions                                                    | 127                         | 100                        | 100                        |
| <b>EVPN-VXLAN SCALING (IP Fabric)</b>                                     |                             |                            |                            |
| VxLAN Tunnel (such as ToR, DCI, hybrid cloud)                             | 1000                        | 512                        | 512                        |
| L2 VNI (bridge domains)                                                   | 8000                        | 4000                       | 4000                       |
| L3 VNI                                                                    | 1024                        | 512                        | 512                        |
| Maximum VRFs                                                              | 1024                        | 512                        | 512                        |
| <b>LAYER 2</b>                                                            |                             |                            |                            |
| Maximum VLANs                                                             | 4090                        | 4090                       | 4090                       |

| Support Type              | SLX 9740/Extreme 8820                                                    | SLX 9640        | SLX 9540        |
|---------------------------|--------------------------------------------------------------------------|-----------------|-----------------|
| Maximum bridge domains    | 4000                                                                     | 4000            | 4000            |
| Maximum MAC entries       | Default profile: 600000 non-MCT (256000 MCT/ EVPN) Route profile: 190000 | 168000          | 168000          |
| Maximum VNIs              | 8000                                                                     | 256 (IPv4 only) | 256 (IPv4 only) |
| <b>LAYER 3</b>            |                                                                          |                 |                 |
| Maximum VEs               | 8000                                                                     | 4000            | 4000            |
| Maximum VRFs              | 1024                                                                     | 512             | 512             |
| <b>SNMP</b>               |                                                                          |                 |                 |
| Maximum communities       | 256                                                                      | 256             | 256             |
| Maximum contexts          | 256                                                                      | 256             | 256             |
| Maximum community maps    | 256                                                                      | 256             | 256             |
| Maximum SNMP v3 users     | 10                                                                       | 10              | 10              |
| Maximum groups            | 10                                                                       | 10              | 10              |
| Maximum views             | 10                                                                       | 10              | 10              |
| Maximum v1/v2c trap hosts | 12                                                                       | 12              | 12              |
| Maximum v3 trap hosts     | 6                                                                        | 6               | 6               |

## SLX 9740/Extreme 8820 Scalability

| Support Type                                   | SLX 9740/Extreme 8820                                  |
|------------------------------------------------|--------------------------------------------------------|
| <b>RSTP</b>                                    |                                                        |
| Maximum physical ports supported with STP/RSTP | Max number of front-end ports                          |
| <b>PVST</b>                                    |                                                        |
| Maximum VLANs                                  | 126                                                    |
| Maximum interfaces                             | Max number of front-end ports; (ports x VLANs <= 2000) |
| Maximum instances                              | 126                                                    |
| Maximum port-VLAN associations                 | 2048                                                   |
| <b>LAYER 3 FEATURES - IPv4</b>                 |                                                        |

| Support Type                                                                       | SLX 9740/Extreme 8820                                                                                                   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Maximum ARP/ND suppression scale                                                   | 8000                                                                                                                    |
| <b>MPLS</b>                                                                        |                                                                                                                         |
| MPLS tunnels                                                                       | 5000                                                                                                                    |
| <b>ACL</b>                                                                         |                                                                                                                         |
| Ingress IPv4 ACLs (ACLs, PBR, RACL, RL, RACL-RL, v4 broadcast ACL) per system      | Default profile: 4086<br>IPv6 Optimised profile: 2038                                                                   |
| Ingress IPv6 ACLs (ACLs, PBR, RL, RACL, RACL-RL)                                   | Default profile: 2038<br>IPv6 Optimised profile: 2038                                                                   |
| Ingress MAC ACL, RL                                                                | Default profile: 2038<br>IPv6 Optimised profile: 2038                                                                   |
| Egress L2 ACL, RL                                                                  | Default profile: 245<br>IPv6 Optimised profile: 1014                                                                    |
| Egress L3 IPv4 ACL, RL                                                             | Default profile: 245<br>IPv6 Optimised profile: 1014                                                                    |
| Egress IPv6 ACL                                                                    | IPv6 Optimised: 245                                                                                                     |
| Policy based routing (PBR)                                                         | 4000                                                                                                                    |
| IPv6 PBR                                                                           | 2000                                                                                                                    |
| Max configurable stanzas in PBR                                                    | 1024                                                                                                                    |
| <b>MULTI-CHASSIS TRUNKING (MCT support)</b>                                        |                                                                                                                         |
| Number of vPorts: (# of VLANs) times (# of ports)                                  | 100000                                                                                                                  |
| Maximum MCT clients                                                                | 72 (1U) (72 x 25G/10G + 4x100G possibility)<br>144 (2U) (144*25G/10G + 8x100G possibility)                              |
| Maximum VLANs for ICL                                                              | All VLANs                                                                                                               |
| Maximum L2 / unified bridging instances (VPLS/EVPN, L2, VXLAN) with MCT and BUM RL | 4000                                                                                                                    |
| Maximum endpoints in MCT for L2/ bridging (VPLS, EVPN, L2, VXLAN)                  | 100000 AC LIFs                                                                                                          |
| MCT VPLS                                                                           | 8000 PW instances total<br>8000 total VNI (including 4000 for VLAN and 4000 for BD)<br>100000 for all types of services |
| MCT VLL                                                                            | 500                                                                                                                     |
| Maximum MAC addresses for MCT                                                      | Default profile: 256000<br>Route profile: 190000                                                                        |
| <b>EVPN-VXLAN SCALING (IP Fabric) LAYER 3</b>                                      |                                                                                                                         |
| Maximum BD VEs                                                                     | 4000                                                                                                                    |
| ND entries                                                                         | 102000                                                                                                                  |
| Static Anycast Gateway address per system (IPv4, IPv6)                             | 8000                                                                                                                    |

| Support Type                                                 | SLX 9740/Extreme 8820                                                                                         |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Static Anycast Gateway address per VE interface (IPv4, IPv6) | 512                                                                                                           |
| BGP EVPN IPv4 and IPv6 route                                 | HW: 2M<br>SW: 5M                                                                                              |
| BGP EVPN mac IP routes                                       | HW: 102000 ARP, 102000 ND<br>SW: 2M                                                                           |
| BGP EVPN mac routes                                          | HW: 250000<br>SW: 2M                                                                                          |
| <b>QoS</b>                                                   |                                                                                                               |
| Maximum number of traffic classes                            | 8                                                                                                             |
| On-chip buffers per ASIC (shared between ingress and egress) | Ingress OCB: 16MB per core (32MB total)<br>Ingress DRAM Buffer: 8GB<br>Egress OCB: 48MB per core (96MB total) |
| Maximum schedulers on system                                 | 40                                                                                                            |
| Maximum shapers on system                                    | 40                                                                                                            |
| Maximum policy-map config on system (Created in SW globally) | 1000                                                                                                          |
| Maximum class-map config per policy                          | 4000                                                                                                          |
| Maximum policy-map config per interface                      | 1                                                                                                             |
| Service-policy per interface                                 | 1 per direction                                                                                               |
| Maximum class-map config on system (created in SW globally)  | 32000                                                                                                         |
| Default class-map per policy                                 | 1                                                                                                             |
| Match ACL class-map per policy                               | 4000 non-default class map per policy map                                                                     |
| Port-based in service-policy on system                       | Number of ports supported                                                                                     |
| Match ACL class in service-policy on system                  | 4000 non-default class maps per policy map                                                                    |
| Port-based out service policy on system                      | Number of ports supported                                                                                     |
| Maximum ACL tables per class                                 | 1                                                                                                             |
| Number of policers (HW supported)                            | 16000                                                                                                         |
| QoS priority queues (per port)                               | 8                                                                                                             |
| <b>BFD</b>                                                   |                                                                                                               |
| IPv4 Sessions                                                | 1000                                                                                                          |
| IPv6 Sessions                                                | 1000                                                                                                          |
| IPv4/IPv6 Concurrent (50:50) Sessions                        | 1000                                                                                                          |
| BFD over VxLAN IPv4/IPv6 Concurrent (50:50) Sessions         | 8000                                                                                                          |
| BFD over MCT                                                 | 1000                                                                                                          |

| Support Type                                                                               | SLX 9740/Extreme 8820 |
|--------------------------------------------------------------------------------------------|-----------------------|
| <b>Monitoring/Mirroring</b>                                                                |                       |
| Maximum Unique Mirror Destinations per device (can be SPAN or RSPAN or ERSPAN destination) | 3                     |
| Maximum Monitor Sessions (can be SPAN or RSPAN or ERSPAN monitor session)                  | 512                   |

## SLX 9640 and SLX 9540 Scalability

| Support Type                                                                               | SLX 9640                                                                                                                                     | SLX 9540                                                                                                   |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>LAYER 3 FEATURES - IPv4</b>                                                             |                                                                                                                                              |                                                                                                            |
| Maximum concurrent IPv4/IPv6 routes in hardware                                            | Default profile: 4M IPv4 and 256000 IPv6 routes<br>v4-v6 profile: 4M IPv4, 700000 IPv6 routes<br>IPv6-route profile: 1M IPv4, 1M IPv6 routes | OptiScale profile<br>LPM: 256000 (routes except /23, /24, /32)<br>LEM: 750000 (routes with /23, /24, /32 ) |
| <b>MULTICAST</b>                                                                           |                                                                                                                                              |                                                                                                            |
| Maximum IGMP snooping VLANs (MCT)                                                          | 500                                                                                                                                          | 500                                                                                                        |
| <b>RATE LIMITING AND TRAFFIC POLICING FEATURES</b>                                         |                                                                                                                                              |                                                                                                            |
| Maximum shared IPv4 ACLs per system                                                        | Per system: 6000 IPv4 ACE<br>CAM sharing: 10000 IPv4 ACE                                                                                     | Per system: 6000 IPv4 ACE<br>CAM sharing: 10000 IPv4 ACE                                                   |
| Maximum shared IPv6 ACLs per system                                                        | Per system: 6000 IPv6 ACE<br>CAM sharing: 1000 IPv6 ACE                                                                                      | Per system: 6000 IPv6 ACE<br>CAM sharing: 1000 IPv6 ACE                                                    |
| Maximum shared L2 ACLs per system                                                          | Per system: 2000 L2 ACE<br>CAM sharing: 2000 L2 ACE                                                                                          | Per system: 2000 L2 ACE<br>CAM sharing: 2000 L2 ACE                                                        |
| <b>MULTI-CHASSIS TRUNKING (vLAG support)</b>                                               |                                                                                                                                              |                                                                                                            |
| Number of vPorts: (# of VLANs) times (# of ports)                                          | 100000                                                                                                                                       | 100000                                                                                                     |
| Number of VLANs for logical port (single port or LAG)                                      | 225                                                                                                                                          | 225                                                                                                        |
| Maximum MCT clients                                                                        | 72 (24 10G ports and 48 25G breakout ports)                                                                                                  | 40                                                                                                         |
| Maximum number of L2/unified bridging instances (VPLS/EVPN, L2, VXLAN) with MCT and BUM RL | 4000                                                                                                                                         | 4000                                                                                                       |

| Support Type                                                               | SLX 9640                                                                                                                                 | SLX 9540                                                                                                                                 |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum number of endpoints in MCT for L2/bridging (VPLS, EVPN, L2, VXLAN) | 80000 AC LIFs<br>8000 PW instances total<br>8000 total VNI (including 4000 for VLAN and 4000 for BD)<br>100000 for all types of services | 80000 AC LIFs<br>8000 PW instances total<br>8000 total VNI (including 4000 for VLAN and 4000 for BD)<br>100000 for all types of services |
| Maximum number of MAC addresses for MCT                                    | 180000                                                                                                                                   | 180000                                                                                                                                   |
| <b>MVRP</b>                                                                |                                                                                                                                          |                                                                                                                                          |
| Maximum dynamic VLANs advertised over MVRP (with/without MCT)              | 2000                                                                                                                                     | 2000                                                                                                                                     |
| Maximum MACs on 2000 dynamic VLANs (with/without MCT)                      | 250000                                                                                                                                   | 250000                                                                                                                                   |

## SLX 9150, SLX 9250, Extreme 8520, and Extreme 8720 Scalability

| Support Type                                                       | SLX 9150/Extreme 8520                     | SLX 9250/Extreme 8720                      |
|--------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|
| <b>LAYER 2 SWITCHING</b>                                           |                                           |                                            |
| Number of trunk groups supported                                   | Default profile: 80 groups (1 to 256 IDs) | Default profile: 128 groups (1 to 256 IDs) |
| Number of ports per trunk group                                    | 64                                        | 64                                         |
| Max LACP trunk threshold                                           | 64                                        | 64                                         |
| Maximum MAC addresses per switch                                   | 64000                                     | 64000                                      |
| Jumbo frames                                                       | 9216 bytes                                | 9216 bytes                                 |
| Number of VLANs                                                    | 4096                                      | 4096                                       |
| Maximum Bridge Domains (BD)                                        | 4000                                      | 4000                                       |
| Maximum port-BD/port-VLAN association (Logical Interfaces or LIFs) | 14200                                     | 14200                                      |
| <b>RSTP</b>                                                        |                                           |                                            |
| Maximum Spanning-Tree instances (RSTP)                             | RSTP is 1 instance only                   | RSTP is 1 instance only                    |
| Maximum physical ports supported with STP/RSTP                     | Equal to max number of front-end ports    | Equal to max number of front-end ports     |
| <b>MSTP</b>                                                        |                                           |                                            |
| Maximum instances                                                  | 32                                        | 32                                         |
| Maximum VLANs per instance                                         | 4090                                      | 4090                                       |

| Support Type                                               | SLX 9150/Extreme 8520                  | SLX 9250/Extreme 8720                  |
|------------------------------------------------------------|----------------------------------------|----------------------------------------|
| Maximum physical interfaces participating per instance     | Equal to max number of front-end ports | Equal to max number of front-end ports |
| Maximum LAG interfaces participating per instance          | 64                                     | 128                                    |
| <b>PVST</b>                                                |                                        |                                        |
| Maximum VLANs                                              | 254                                    | 254                                    |
| Maximum interfaces                                         | Equal to max number of front-end ports | Equal to max number of front-end ports |
| Maximum instances                                          | 254                                    | 254                                    |
| Maximum port-VLAN associations                             | 2032                                   | 2032                                   |
| <b>MULTICAST</b>                                           |                                        |                                        |
| IPv4 software multicast cache for PIM/SM                   | 8000                                   | 8000                                   |
| IPv4 hardware multicast entries                            | 8000                                   | 8000                                   |
| Maximum (IGMP/MLD) snooping VLANs                          | 512                                    | 512                                    |
| Maximum (IGMP/MLD) snooping VLANs (MCT)                    | 512                                    | 512                                    |
| Maximum static entry (IGMPv2 and MLDv1) with uplink - IPv4 | 8000                                   | 8000                                   |
| Snoop multicast IGMP join rate per port                    | 500/s                                  | 500/s                                  |
| Snoop multicast IGMP leave rate per port                   | 500/s                                  | 500/s                                  |
| PIM SM maximum OIFs per system                             | 15500 (Max VLAN-port combination)      | 15500 (Max VLAN-port combination)      |
| PIM SM maximum OIFs per entry                              | 128                                    | 128                                    |
| PIM join/prune rate                                        | 1500/s                                 | 1500/s                                 |
| Maximum VLAN replication per entry                         | 128                                    | 128                                    |
| Maximum multicast VRFs                                     | 50                                     | 50                                     |
| Maximum IGMP/MLD groups per interface                      | No restriction                         | No restriction                         |
| Maximum IGMP/MLD OIF per entry                             | 128                                    | 128                                    |
| Maximum multicast prefix advertised by an RP               | 250                                    | 250                                    |
| Maximum BSR RP per multicast domain                        | 56                                     | 56                                     |

| Support Type                                                                     | SLX 9150/Extreme 8520       | SLX 9250/Extreme 8720       |
|----------------------------------------------------------------------------------|-----------------------------|-----------------------------|
| Maximum static RP per system                                                     | 56                          | 56                          |
| Maximum RPset x RP per system                                                    | 56                          | 56                          |
| Maximum PIM Anycast RPs per system                                               | 56                          | 56                          |
| Maximum Anycast RP peers per system                                              | 8                           | 8                           |
| Multicast ECMP paths                                                             | 64                          | 64                          |
| <b>LAYER 3 FEATURES - IPv4</b>                                                   |                             |                             |
| Maximum IP interfaces per system (Ipv4, Ipv6)                                    | 4000                        | 4000                        |
| Maximum Virtual Ethernet Interfaces per system                                   | 8000                        | 8000                        |
| Maximum ARP entries                                                              | 47000                       | 47000                       |
| Maximum static ARP entries                                                       | 47000                       | 47000                       |
| Maximum IP next-hops                                                             | 48000                       | 48000                       |
| Possible secondary IP addresses                                                  | 254                         | 254                         |
| Maximum loopback interfaces                                                      | 255                         | 255                         |
| Maximum OSPF areas (per VRF)                                                     | 200                         | 200                         |
| OSPF routers in a single area                                                    | 200                         | 200                         |
| Maximum OSPF routes                                                              | 64000                       | 64000                       |
| Maximum static route entries                                                     | 24000                       | 24000                       |
| Maximum BGP peer groups                                                          | 1024                        | 1024                        |
| Maximum BGP routes in RIB                                                        | 3.25M (in + out)            | 3.25M (in + out)            |
| BGP peers (IPv4 and IPv6 concurrent including all VRFs)                          | 2400                        | 2400                        |
| BGP dynamic listen range supported (IPv4 and IPv6 concurrent including all VRFs) | 2400                        | 2400                        |
| Maximum BGP additional paths for received prefixes                               | 128                         | 128                         |
| Maximum IS-IS routes                                                             | 25000                       | 25000                       |
| Number of adjacencies                                                            | Broadcast: 255<br>P2P: 1024 | Broadcast: 255<br>P2P: 1024 |
| Number of IS-IS LSPs                                                             | 255                         | 255                         |
| Number of IS-IS routers in a level                                               | 255                         | 255                         |

| Support Type                                                 | SLX 9150/Extreme 8520                                                                                                                                                                                                                                        | SLX 9250/Extreme 8720                                                                                                                                                                                                                                        |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum IS-IS interfaces                                     | Broadcast: 255<br>P2P: 1024                                                                                                                                                                                                                                  | Broadcast: 255<br>P2P: 1024                                                                                                                                                                                                                                  |
| Maximum IPv4 routes                                          | 163840                                                                                                                                                                                                                                                       | 163840                                                                                                                                                                                                                                                       |
| Maximum VRFs per system<br>(BGP VRF IPv4/IPv6)               | 1024                                                                                                                                                                                                                                                         | 1024                                                                                                                                                                                                                                                         |
| Maximum VRFs per system<br>(OSPF VRF IPv4/IPv6)              | 1024                                                                                                                                                                                                                                                         | 1024                                                                                                                                                                                                                                                         |
| Maximum VRFs per system<br>static VRF IPv4/IPv6)             | 1024                                                                                                                                                                                                                                                         | 1024                                                                                                                                                                                                                                                         |
| ECMP FEC scale                                               | 16000                                                                                                                                                                                                                                                        | 16000                                                                                                                                                                                                                                                        |
| Maximum ECMP paths                                           | 128                                                                                                                                                                                                                                                          | 128                                                                                                                                                                                                                                                          |
| Number of VRRP/VRRPe<br>instances per system (IPv4,<br>IPv6) | 255                                                                                                                                                                                                                                                          | 255                                                                                                                                                                                                                                                          |
| Number of VRRP instances per<br>IP interface                 | 16                                                                                                                                                                                                                                                           | 16                                                                                                                                                                                                                                                           |
| <b>LAYER 3 FEATURES - IPv6</b>                               |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                              |
| Maximum IPv6 static route<br>entries                         | 10000                                                                                                                                                                                                                                                        | 10000                                                                                                                                                                                                                                                        |
| Maximum IPv6 routes                                          | 64512                                                                                                                                                                                                                                                        | 64512                                                                                                                                                                                                                                                        |
| Maximum ND entries                                           | 33000                                                                                                                                                                                                                                                        | 33000                                                                                                                                                                                                                                                        |
| Maximum OSPFv3 routes                                        | 64000                                                                                                                                                                                                                                                        | 64000                                                                                                                                                                                                                                                        |
| Maximum OSPFv3 interfaces                                    | 200                                                                                                                                                                                                                                                          | 200                                                                                                                                                                                                                                                          |
| Maximum OSPFv3 neighbors                                     | 200                                                                                                                                                                                                                                                          | 200                                                                                                                                                                                                                                                          |
| Maximum OSPFv3 areas per<br>VRF                              | 10                                                                                                                                                                                                                                                           | 10                                                                                                                                                                                                                                                           |
| Maximum BGPv6 routes in the<br>RIB                           | Same as IPv4                                                                                                                                                                                                                                                 | Same as IPv4                                                                                                                                                                                                                                                 |
| Maximum BGPv6 neighbors                                      | 512                                                                                                                                                                                                                                                          | 512                                                                                                                                                                                                                                                          |
| Maximum DHCPv6 Delegated<br>Prefixes                         | Per System:<br><ul style="list-style-type: none"> <li>Maximum Scale - 20000</li> <li>Default Maximum Scale - 8000</li> </ul> Per Interface:<br><ul style="list-style-type: none"> <li>Maximum Scale - 20000</li> <li>Default Maximum Scale - 1000</li> </ul> | Per System:<br><ul style="list-style-type: none"> <li>Maximum Scale - 20000</li> <li>Default Maximum Scale - 8000</li> </ul> Per Interface:<br><ul style="list-style-type: none"> <li>Maximum Scale - 20000</li> <li>Default Maximum Scale - 1000</li> </ul> |
| <b>RATE LIMITING AND TRAFFIC POLICING FEATURES</b>           |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                              |
| Granularity                                                  | 1kbps                                                                                                                                                                                                                                                        | 1kbps                                                                                                                                                                                                                                                        |

| Support Type                                        | SLX 9150/Extreme 8520                                                                                                                                                                                                                   | SLX 9250/Extreme 8720                                                                                                                                                                                                                    |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of rate-limiters/traffic-policers per system | 8000 in SW                                                                                                                                                                                                                              | 8000 in SW                                                                                                                                                                                                                               |
| <b>ACL</b>                                          |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                          |
| Maximum shared IPv4 ACLs per system                 | 2000 ACL groups with 2000 ACL statements each (SW)<br>IPv4 ACL DB standard ingress count: 767/768, egress count 245/246<br>Extended ingress count: 767/768 egress count 245/246<br>Same DB is shared by PBR, ACL rate limiters and RACL | 2000 ACL groups with 2000 ACL statements each (SW)<br>IPv4 ACL DB standard ingress count: 767/768, egress count 245/246.<br>Extended ingress count: 767/768 egress count 245/246<br>Same DB is shared by PBR, ACL rate limiters and RACL |
| Maximum shared IPv6 ACLs per system                 | 2000 ACL groups with 2000 ACL statements each (SW)<br>IPv6 ACL DB standard: 767/768. Extended: 767/768<br>Same DB is shared by PBR, ACL rate limiters and RACL                                                                          | 2000 ACL groups with 2000 ACL statements each (SW)<br>IPv6 ACL DB standard: 767/768. Extended: 767/768<br>Same DB is shared by PBR, ACL rate limiters and RACL                                                                           |
| Maximum shared L2 ACLs per system                   | 2000 ACL groups with 2000 ACL statements each (SW)<br>MAC ACL DB standard ingress count: 501/502, egress count: 245/246<br>Extended ingress count: 501/502, egress count 245/246<br>L2 rate limiter shares same DB                      | 2000 ACL groups with 2000 ACL statements each (SW)<br>MAC ACL DB standard ingress count: 501/502, egress count: 245/246<br>Extended ingress count: 501/502, egress count 245/246<br>L2 rate limiter shares same DB                       |
| Policy Based Routing (PBR)                          | 767 (TCAM entries shared with v4 ACL)                                                                                                                                                                                                   | 767 (TCAM entries shared with v4 ACL)                                                                                                                                                                                                    |
| IPv6 PBR                                            | 767 (TCAM entries shared with v6 ACL)                                                                                                                                                                                                   | 767 (TCAM entries shared with v6 ACL)                                                                                                                                                                                                    |
| Maximum configurable PBR route maps                 | 200                                                                                                                                                                                                                                     | 200                                                                                                                                                                                                                                      |
| Maximum configurable stanzas in PBR                 | 1024                                                                                                                                                                                                                                    | 1024                                                                                                                                                                                                                                     |
| Maximum number of IP receive ACLs                   | Same as IPv4 ACL                                                                                                                                                                                                                        | Same as IPv4 ACL                                                                                                                                                                                                                         |
| Maximum number of IPv6 receive ACLs                 | Same as IPv6 ACL                                                                                                                                                                                                                        | Same as IPv6 ACL                                                                                                                                                                                                                         |
| <b>MULTI-CHASSIS TRUNKING (vLAG support)</b>        |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                          |

| Support Type                                                                        | SLX 9150/Extreme 8520                                                                                                | SLX 9250/Extreme 8720                                                                                                |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Maximum port-BD/port-VLAN association (Logical Interfaces or LIFs)                  | 14200                                                                                                                | 14200                                                                                                                |
| VLANs for logical port (single port or LAG)                                         | 4000 (4000 VLAN or 4000 BD)                                                                                          | 4000 (4000 VLAN or 4000 BD)                                                                                          |
| Maximum MCT clients                                                                 | 62                                                                                                                   | 126                                                                                                                  |
| Maximum VLANs for ICL                                                               | 4090 VLAN + 4000 BD (VxLAN tunnels)                                                                                  | 4090 VLAN + 4000 BD (VxLAN tunnels)                                                                                  |
| Maximum L2 / unified bridging instances (VPLS, EVPN, L2, VXLAN) with MCT            | 4000 VLAN + 4000 BD (EVPN-VXLAN)<br>VPLS not supported                                                               | 4000 VLAN + 4000 BD (EVPN-VXLAN)<br>VPLS not supported                                                               |
| Maximum L2 / unified bridging instances (VPLS, EVPN, L2, VXLAN) with MCT and BUM RL | 4000 VLAN + 1000 BD (EVPN-VXLAN)<br>VPLS not supported                                                               | 4000 VLAN + 1000 BD (EVPN-VXLAN)<br>VPLS not supported                                                               |
| Maximum endpoints in MCT for L2/bridging (VPLS, EVPN, L2, VXLAN)                    | VPLS not supported<br>6000 VXLAN VNIs<br>L2: 15000                                                                   | VPLS not supported<br>6000 VXLAN VNIs<br>L2: 15000                                                                   |
| Maximum MAC addresses for MCT                                                       | 64000                                                                                                                | 64000                                                                                                                |
| <b>EVPN-VXLAN Scaling (IP Fabric)</b>                                               |                                                                                                                      |                                                                                                                      |
| VxLAN tunnel (such as ToR, DCI, hybrid cloud)                                       | 250                                                                                                                  | 250                                                                                                                  |
| L2 VNI (bridge domains)                                                             | 4000 VLAN + 2000 BD                                                                                                  | 4000 VLAN + 2000 BD                                                                                                  |
| L3 VNI                                                                              | 128                                                                                                                  | 128                                                                                                                  |
| <b>Layer 2</b>                                                                      |                                                                                                                      |                                                                                                                      |
| Maximum VLANs                                                                       | 4090                                                                                                                 | 4090                                                                                                                 |
| Maximum bridge domains                                                              | <ul style="list-style-type: none"> <li>4000 for Centralized Routing</li> <li>2000 for Distributed Routing</li> </ul> | <ul style="list-style-type: none"> <li>4000 for Centralized Routing</li> <li>2000 for Distributed Routing</li> </ul> |
| Maximum MAC entries                                                                 | 64000                                                                                                                | 64000                                                                                                                |
| Maximum ARP entries                                                                 | 47000                                                                                                                | 47000                                                                                                                |
| Maximum VNI                                                                         | 4000 + 2000 + 128                                                                                                    | 4000 + 2000 + 128                                                                                                    |
| <b>Layer 3</b>                                                                      |                                                                                                                      |                                                                                                                      |
| Maximum BGP peers (IPv4+IPv6)                                                       | 1000                                                                                                                 | 1000                                                                                                                 |
| Maximum VE                                                                          | 8000                                                                                                                 | 8000                                                                                                                 |
| Maximum BD VE                                                                       | 4000                                                                                                                 | 4000                                                                                                                 |
| Maximum VRF                                                                         | 1024                                                                                                                 | 1024                                                                                                                 |
| ND entries                                                                          | 34000                                                                                                                | 34000                                                                                                                |

| Support Type                                                 | SLX 9150/Extreme 8520                                                          | SLX 9250/Extreme 8720                                                          |
|--------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Static Anycast Gateway address per system (IPv4, IPv6)       | 8000                                                                           | 8000                                                                           |
| Static Anycast Gateway address per VE interface (IPv4, IPv6) | 512                                                                            | 512                                                                            |
| BGP EVPN IPv4 and IPv6 routes                                | HW IPv4: 128000<br>HW IPv6: 10000<br>SW: 2M (shared with all EVPN route types) | HW IPv4: 128000<br>HW IPv6: 10000<br>SW: 2M (shared with all EVPN route types) |
| BGP EVPN MAC IP routes                                       | HW: 47000<br>SW: 2M (shared with all EVPN route types)                         | HW: 47000<br>SW: 2M (shared with all EVPN route types)                         |
| BGP EVPN MAC routes                                          | HW: 47000<br>SW: 2M (shared with all EVPN route types)                         | HW: 47000<br>SW: 2M (shared with all EVPN route types)                         |
| <b>QoS</b>                                                   |                                                                                |                                                                                |
| Maximum traffic classes                                      | 8                                                                              | 8                                                                              |
| On chip buffers per ASIC (shared between ingress and egress) | 32MB                                                                           | 32MB                                                                           |
| Maximum schedulers on system                                 | 80                                                                             | 128                                                                            |
| Maximum shapers on system                                    | 80                                                                             | 128                                                                            |
| Maximum policy-map config on system (Created in SW globally) | 1000                                                                           | 1000                                                                           |
| Maximum class-map config per policy                          | 4000                                                                           | 4000                                                                           |
| Maximum policy-map config per interface                      | 1                                                                              | 1                                                                              |
| Service policy per interface                                 | 1 per direction                                                                | 1 per direction                                                                |
| Maximum class-map config on system (Created in SW globally)  | 32000                                                                          | 32000                                                                          |
| Default class-map per policy                                 | 1                                                                              | 1                                                                              |
| Match ACL class-map per policy                               | 4000 non-default class map per policy-map                                      | 4000 non-default class map per policy-map                                      |
| Port-based in service-policy on system                       | 64                                                                             | 128                                                                            |
| Match ACL class ACL in service-policy on system              | 4000 non default-class map per policy-map                                      | 4000 non default-class map per policy-map                                      |
| Port-based in service-policy on system                       | 64                                                                             | 128                                                                            |
| Maximum ACL tables per class                                 | 1                                                                              | 1                                                                              |
| Number of policers                                           | 1024                                                                           | 1024                                                                           |

| Support Type                                                                               | SLX 9150/Extreme 8520                                                                    | SLX 9250/Extreme 8720                                                                    |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Maximum unique RED profiles configured (SW)                                                | 120                                                                                      | 120                                                                                      |
| Maximum unique RED profiles configured (HW)                                                | 128                                                                                      | 128                                                                                      |
| QoS priority queues (per port)                                                             | 8                                                                                        | 8                                                                                        |
| PCP-->TC, DSCP-->TC                                                                        | 61                                                                                       | 61                                                                                       |
| DSCP-->DSCP                                                                                | 10                                                                                       | 10                                                                                       |
| DSCP-->CoS, TC-->CoS                                                                       | 12                                                                                       | 12                                                                                       |
| TC-->DSCP                                                                                  | Not applicable                                                                           | Not applicable                                                                           |
| Maximum per-port priority pause level                                                      | Pause and PFC not applicable in 20.2.3                                                   | Pause and PFC not applicable in 20.2.3                                                   |
| <b>SNMP</b>                                                                                |                                                                                          |                                                                                          |
| Maximum communities                                                                        | 256                                                                                      | 256                                                                                      |
| Maximum contexts                                                                           | 256                                                                                      | 256                                                                                      |
| Maximum community maps                                                                     | 256                                                                                      | 256                                                                                      |
| Maximum SNMP v3 users                                                                      | 10                                                                                       | 10                                                                                       |
| Maximum groups                                                                             | 10                                                                                       | 10                                                                                       |
| Maximum views                                                                              | 10                                                                                       | 10                                                                                       |
| Maximum v1/v2c trap hosts                                                                  | 12                                                                                       | 12                                                                                       |
| Maximum v3 trap hosts                                                                      | 6                                                                                        | 6                                                                                        |
| <b>NETCONF</b>                                                                             |                                                                                          |                                                                                          |
| Maximum SSH concurrent sessions                                                            | 16                                                                                       | 16                                                                                       |
| <b>REST/RESTCONF</b>                                                                       |                                                                                          |                                                                                          |
| Maximum REST/RESTCONF sessions                                                             | 30                                                                                       | 30                                                                                       |
| <b>BFD</b>                                                                                 |                                                                                          |                                                                                          |
| IPv4 Hardware Sessions                                                                     | 1000                                                                                     | 1000                                                                                     |
| IPv6 Hardware Sessions                                                                     | 600                                                                                      | 600                                                                                      |
| IPv4/IPv6 Concurrent Hardware Sessions                                                     | <ul style="list-style-type: none"> <li>• 850 for IPv4</li> <li>• 150 for IPv6</li> </ul> | <ul style="list-style-type: none"> <li>• 850 for IPv4</li> <li>• 150 for IPv6</li> </ul> |
| Software sessions supported (concurrent (50:50) IPv4 and IPv6 sessions)                    | 1000                                                                                     | 1000                                                                                     |
| <b>Monitoring/Mirroring</b>                                                                |                                                                                          |                                                                                          |
| Maximum Unique Mirror Destinations per device (can be SPAN or RSPAN or ERSPAN destination) | 2                                                                                        | 2                                                                                        |

| Support Type                                                                 | SLX 9150/Extreme 8520                                                                                                                              | SLX 9250/Extreme 8720                                                                                                                              |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Monitor Sessions<br>(can be SPAN or RSPAN or ERSPAN monitor session) | 512                                                                                                                                                | 512                                                                                                                                                |
| <b>EVPN Multihoming IP Fabric Scaling</b>                                    |                                                                                                                                                    |                                                                                                                                                    |
| VxLAN Tunnel                                                                 | 252                                                                                                                                                | 252                                                                                                                                                |
| Max ESI Segment across Fabric                                                | 1500                                                                                                                                               | 1500                                                                                                                                               |
| Max MAC Entries                                                              | 64000                                                                                                                                              | 64000                                                                                                                                              |
| Max ARP entries                                                              | 47000                                                                                                                                              | 47000                                                                                                                                              |
| Max ND Entries                                                               | 34000                                                                                                                                              | 34000                                                                                                                                              |
| Static Anycast Gateway address<br>per system (IPv4, IPv6)                    | 8000                                                                                                                                               | 8000                                                                                                                                               |
| Static Anycast Gateway address<br>per VE interface (IPv4, IPv6)              | 512                                                                                                                                                | 512                                                                                                                                                |
| BGP EVPN IPv4 and IPv6 route                                                 | <ul style="list-style-type: none"> <li>• HW IPv4: 128000</li> <li>• HW IPv6: 10000</li> <li>• SW: 2M (shared with all EVPN route types)</li> </ul> | <ul style="list-style-type: none"> <li>• HW IPv4: 128000</li> <li>• HW IPv6: 10000</li> <li>• SW: 2M (shared with all EVPN route types)</li> </ul> |
| BGP EVPN MAC IP routes                                                       | <ul style="list-style-type: none"> <li>• HW: 47000</li> <li>• SW: 2M (shared with all EVPN route types)</li> </ul>                                 | <ul style="list-style-type: none"> <li>• HW: 47000</li> <li>• SW: 2M (shared with all EVPN route types)</li> </ul>                                 |
| BGP EVPN MAC routes                                                          | <ul style="list-style-type: none"> <li>• HW: 47000</li> <li>• SW: 2M (shared with all EVPN route types)</li> </ul>                                 | <ul style="list-style-type: none"> <li>• HW: 47000</li> <li>• SW: 2M (shared with all EVPN route types)</li> </ul>                                 |