



VOSS Feature Support Matrix

For VOSS Release 8.3

9036829-00 Rev AA
February 2021



Copyright © 2021 Extreme Networks, Inc.

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

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

About this Document.....	4
Purpose.....	4
Documentation and Training.....	5
Getting Help.....	5
Subscribe to Service Notifications.....	6
Providing Feedback.....	6
VOSS Features A to C.....	7
VOSS Features D to F.....	26
VOSS Features G to I.....	50
VOSS Features J to L.....	65
VOSS Features M to O.....	74
VOSS Features P to R.....	84
VOSS Features S to U.....	97
VOSS Features V to X.....	111
VOSS Features Y and Z.....	117



About this Document

Purpose on page 4

Documentation and Training on page 5

Getting Help on page 5

Providing Feedback on page 6

This section discusses the purpose of this document, ways to provide feedback, additional help, and information regarding other Extreme Networks publications.

Purpose

This document provides information on features in VSP Operating System Software (VOSS). VOSS runs on the following product families:

- ExtremeSwitching 5520 Series
- ExtremeSwitching VSP 4450 Series
- ExtremeSwitching VSP 4900 Series
- ExtremeSwitching VSP 7200 Series
- ExtremeSwitching VSP 7400 Series
- ExtremeSwitching VSP 8000 Series (includes VSP 8200 Series and VSP 8400 Series)
- ExtremeSwitching VSP 8600 Series
- ExtremeSwitching XA1400 Series



Note

VOSS is licensed on the XA1400 Series as a Fabric Connect VPN (FCVPN) application, which includes a subset of VOSS features. FCVPN transparently extends Fabric Connect services over third-party provider networks.

This document identifies the release that first introduced feature support on a hardware product. Each new release includes all the features from previous releases unless specifically stated otherwise. Use this document to determine if features are supported on your product.

**Note**

Release 4.1 was the first VOSS release. Release numbers earlier than 4.1 are releases specific to the particular product, for example, VSP 4000 4.0.

Releases that are not part of the main VOSS release cycle begin with the product name, for example, VSP 8600 6.3.

Different models within a product family can be introduced in different software releases. The tables in this document include the earliest release number. To understand which release is the minimum software release for each model, see [Release Notes for VOSS](#).

This document arranges the features alphabetically, based on how those features are included in the [VOSS User Guide](#). For example, [Table 19](#) on page 26 includes both Directed Broadcast and High Secure Mode.

The tables in this document also appear in the conceptual feature content of the [VOSS User Guide](#).

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 white papers, data sheets, and case studies

Extreme Networks offers product training courses, both online and in person, as well as specialized certifications. For details, visit www.extremenetworks.com/education/.

Getting Help

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 2826. For the support phone number in your country, visit: 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 Service Notifications

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

1. Go to www.extremenetworks.com/support/service-notification-form.
2. Complete the form (all fields are required).
3. Select the products for which you would like to receive notifications.



Note

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

4. Select **Submit**.

Providing Feedback

The Information Development team at Extreme Networks has made every effort to ensure the accuracy and completeness of this document. We are always striving to improve our documentation and help you work better, 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 in the document.
- Broken links or usability issues.

If you would like to provide feedback, you can do so in three ways:

- In a web browser, select the feedback icon and complete the online feedback form.
- Access the feedback form at <https://www.extremenetworks.com/documentation-feedback/>.
- Email us at documentation@extremenetworks.com.

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



VOSS Features A to C

Table 1: Access Control Entry product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide . Platform specific considerations for ACL and ACE behavior are documented in ACL Filters Behavior Differences, which is in VOSS User Guide .		
QoS Access Control Entries (ACE)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	VOSS 8.0.50
Security ACEs	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 2: Access Control List product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide . Platform specific considerations for ACL and ACE behavior are documented in ACL Filters Behavior Differences, which is in VOSS User Guide .		
Access Control List (ACL)-based filtering, including egress ACLs,	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0

Table 2: Access Control List product support (continued)

Feature	Product	Release introduced
ingress ACLs, Layer 2 to Layer 4 filtering, port-based, and VLAN-based	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
InVSN Filter	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
IPv6 ingress filters	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 2: Access Control List product support (continued)

Feature	Product	Release introduced
IPv6 egress filters	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 3: Address Resolution Protocol product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Address Resolution Protocol (ARP) including Proxy ARP and Static ARP	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
Gratuitous ARP filtering	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.2
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 4: Advanced Feature Bandwidth Reservation product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 4: Advanced Feature Bandwidth Reservation product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Advanced Feature Bandwidth Reservation Note: If your switch does not have this boot flag, it is because the hardware reserves the bandwidth automatically with no user interaction.	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.0.50 XA1480 only- demonstration feature

Table 5: Alternative routes product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Alternative routes for IPv4	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 5: Alternative routes product support (continued)

Feature	Product	Release introduced
Alternative routes for IPv6	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 6: Application Telemetry product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Application Telemetry	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.1
	VSP 8400 Series	VOSS 7.1
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported
Application Telemetry Host Monitoring	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.0.5
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 8.0.5
	VSP 7400 Series	VOSS 8.0.5
	VSP 8200 Series	VOSS 8.0.5
	VSP 8400 Series	VOSS 8.0.5
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported

Table 7: Authentication for Privileged EXEC Mode product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 7: Authentication for Privileged EXEC Mode product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Authentication for Privileged EXEC CLI Command Mode	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.2
	VSP 4900 Series	VOSS 8.2
	VSP 7200 Series	VOSS 8.2
	VSP 7400 Series	VOSS 8.2
	VSP 8200 Series	VOSS 8.2
	VSP 8400 Series	VOSS 8.2
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	VOSS 8.2

Table 8: Auto-Negotiation product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Auto-Negotiation	5520 Series	VOSS 8.2.5 Switch models: <ul style="list-style-type: none"> 5520-24T, 5520-24W, 5520-48T, 5520-48W, 5520-12MW-36W 5520-48SE QSFP28/QSFP+ ports, and all fixed fiber ports, at 1 Gbps only <p>Note: QSFP28 ports are only available if you disable Advanced Feature Bandwidth Reservation.</p> 5520-VIM-4XE at 1 Gbps only and 5520-VIM-4YE at 25 Gbps only
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1 Switch models: <ul style="list-style-type: none"> VSP4900-24S and VSP4900-48P - all fixed ports VSP4900-12MXU-12XE - all fixed ports, with ports 13 to 24 at 1 Gbps only VSP4900-24XE - all fixed ports at 1 Gbps only

Table 8: Auto-Negotiation product support (continued)

Feature	Product	Release introduced
		VIM5-4XE at 1 Gbps only and VIM5-4YE at 25 Gbps only
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 9: Auto-sense product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Auto-sense	5520 Series	VOSS 8.3
	VSP 4450 Series	VOSS 8.3
	VSP 4900 Series	VOSS 8.3
	VSP 7200 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
	VSP 8200 Series	VOSS 8.3
	VSP 8400 Series	VOSS 8.3
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 10: Bidirectional Forwarding Detection (BFD) product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
BFD (IPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.1
	VSP 8200 Series	VOSS 8.1
	VSP 8400 Series	VOSS 8.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 10: Bidirectional Forwarding Detection (BFD) product support (continued)

Feature	Product	Release introduced
BFD (IPv6)	5520 Series	VOSS 8.2.5 demonstration feature
	VSP 4450 Series	VOSS 8.1 demonstration feature
	VSP 4900 Series	VOSS 8.1 demonstration feature
	VSP 7200 Series	VOSS 8.1 demonstration feature
	VSP 7400 Series	VOSS 8.1 demonstration feature
	VSP 8200 Series	VOSS 8.1 demonstration feature
	VSP 8400 Series	VOSS 8.1 demonstration feature
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
BFD over Fabric Extend Tunnels (IPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.2
	VSP 7200 Series	VOSS 8.2
	VSP 7400 Series	VOSS 8.2
	VSP 8200 Series	VOSS 8.2
	VSP 8400 Series	VOSS 8.2
	VSP 8600 Series	Not supported
	XA1400 Series	VOSS 8.2

Table 11: Border Gateway Protocol product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Border Gateway Protocol for IPv4 (BGPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 11: Border Gateway Protocol product support (continued)

Feature	Product	Release introduced
BGP+ (BGPv4 for IPv6).	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.0
	VSP 8400 Series	VOSS 5.0
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported
BGPv6	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported
External BGP (eBGP)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 11: Border Gateway Protocol product support (continued)

Feature	Product	Release introduced
Internal BPG (iBGP)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.2
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
Route metric for BGP route redistribution	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1
	VSP 8400 Series	VOSS 6.1
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	VOSS 8.0.50
iBGP over user-created VRFs	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.1
	VSP 8200 Series	VOSS 8.1
	VSP 8400 Series	VOSS 8.1
	VSP 8600 Series	VSP 8600 8.0 - demonstration feature
	XA1400 Series	Not Supported

Table 12: Bridge Protocol Data Unit (BPDU) Guard product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 12: Bridge Protocol Data Unit (BPDU) Guard product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Bridge Protocol Data Unit (BPDU) Guard	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 13: Certificate order priority product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Certificate order priority Note: VOSS Releases 6.0 and 6.0.1 do not support this feature.	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1.2
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1.2
	VSP 8400 Series	VOSS 5.1.2
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.0.50

Table 14: Channelization product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Channelization of 40 Gbps ports	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0

Table 14: Channelization product support (continued)

Feature	Product	Release introduced
		VSP 7432CQ only
	VSP 8200 Series	VOSS 4.2
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	Not Applicable
Channelization of 100 Gbps ports	5520 Series	Not Applicable
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	Not Applicable
	VSP 7200 Series	Not Applicable
	VSP 7400 Series	VOSS 8.0 VSP 7432CQ only
	VSP 8200 Series	Not Applicable
	VSP 8400 Series	Not Supported
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Applicable

Table 15: Client and Server product support

Feature	Product	Release introduced	Release deprecated
For configuration details, see VOSS User Guide .			
File Transfer Protocol (FTP) server and client (IPv4)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VSP 4000 4.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VSP 8200 4.0	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 4.5	Not Applicable
	XA1400 Series	VOSS 8.0.50	Not Applicable

Table 15: Client and Server product support (continued)

Feature	Product	Release introduced	Release deprecated
File Transfer Protocol (FTP) server and client (IPv6)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 4.1	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 4.1	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 6.2	Not Applicable
	XA1400 Series	Not Supported	Not Applicable
Hypertext Transfer Protocol (HTTP) and Hypertext Transfer Protocol Secure (HTTPS) (IPv4)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 4.1	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VSP 8200 4.0	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 4.5	Not Applicable
	XA1400 Series	VOSS 8.0.50	Not Applicable
Hypertext Transfer Protocol (HTTP) and Hypertext Transfer Protocol Secure (HTTPS) (IPv6)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 4.1	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 4.1	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 6.2	Not Applicable
	XA1400 Series	Not Supported	Not Applicable

Table 15: Client and Server product support (continued)

Feature	Product	Release introduced	Release deprecated
Remote Login (Rlogin) server/client (IPv4)	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	VSP 4000 4.0	VOSS 8.2
	VSP 4900 Series	VOSS 8.1	VOSS 8.2
	VSP 7200 Series	VOSS 4.2.1	VOSS 8.2
	VSP 7400 Series	VOSS 8.0	VOSS 8.2
	VSP 8200 Series	VSP 8200 4.0	VOSS 8.2
	VSP 8400 Series	VOSS 4.2	VOSS 8.2
	VSP 8600 Series	VSP 8600 4.5	Not Applicable
	XA1400 Series	VOSS 8.0.50	VOSS 8.2
Rlogin server (IPv6)	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	VOSS 4.1	VOSS 8.2
	VSP 4900 Series	VOSS 8.1	VOSS 8.2
	VSP 7200 Series	VOSS 4.2.1	VOSS 8.2
	VSP 7400 Series	VOSS 8.0	VOSS 8.2
	VSP 8200 Series	VOSS 4.1	VOSS 8.2
	VSP 8400 Series	VOSS 4.2	VOSS 8.2
	VSP 8600 Series	VSP 8600 6.2	Not Applicable
	XA1400 Series	Not Supported	VOSS 8.2
Rlogin client (IPv6)	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	VOSS 7.0	VOSS 8.2
	VSP 4900 Series	VOSS 8.1	VOSS 8.2
	VSP 7200 Series	VOSS 7.0	VOSS 8.2
	VSP 7400 Series	VOSS 8.0	VOSS 8.2
	VSP 8200 Series	VOSS 7.0	VOSS 8.2
	VSP 8400 Series	VOSS 7.0	VOSS 8.2
	VSP 8600 Series	VSP 8600 8.0	Not Applicable
	XA1400 Series	Not Supported	VOSS 8.2

Table 15: Client and Server product support (continued)

Feature	Product	Release introduced	Release deprecated
Remote Shell (RSH) server/client	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	VSP 4000 4.0	VOSS 8.2
	VSP 4900 Series	VOSS 8.1	VOSS 8.2
	VSP 7200 Series	VOSS 4.2.1	VOSS 8.2
	VSP 7400 Series	VOSS 8.0	VOSS 8.2
	VSP 8200 Series	VSP 8200 4.0	VOSS 8.2
	VSP 8400 Series	VOSS 4.2	VOSS 8.2
	VSP 8600 Series	VSP 8600 4.5	Not Applicable
	XA1400 Series	VOSS 8.0.50	VOSS 8.2
Secure Copy (SCP) Note: The switch does not support the WinSCP client.	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VSP 4000 4.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 5.0	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VSP 8200 4.0	Not Applicable
	VSP 8400 Series	VOSS 5.0	Not Applicable
	VSP 8600 Series	VSP 8600 4.5	Not Applicable
	XA1400 Series	VOSS 8.0.50	Not Applicable
Secure File Transfer Protocol (SFTP) server (IPv4)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	>VOSS 4.2	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 4.2	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 4.5	Not Applicable
	XA1400 Series	VOSS 8.0.50	Not Applicable

Table 15: Client and Server product support (continued)

Feature	Product	Release introduced	Release deprecated
Secure File Transfer Protocol (SFTP) server (IPv6)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 4.2	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 4.2	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 6.2	Not Applicable
	XA1400 Series	Not Supported	Not Applicable
Telnet server and client (IPv4)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VSP 4000 4.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VSP 8200 4.0	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 4.5	Not Applicable
	XA1400 Series	VOSS 8.0.50	Not Applicable
Telnet server and client (IPv6)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 4.1	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 4.1	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 6.2	Not Applicable
	XA1400 Series	Not Supported	Not Applicable

Table 15: Client and Server product support (continued)

Feature	Product	Release introduced	Release deprecated
Trivial File Transfer Protocol (TFTP) server and client (IPv4)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VSP 4000 4.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VSP 8200 4.0	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 4.5	Not Applicable
	XA1400 Series	VOSS 8.0.50	Not Applicable
TFTP server (IPv6)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 4.1	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 4.1	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 6.2	Not Applicable
	XA1400 Series	Not Supported	Not Applicable
TFTP client (IPv6)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 7.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 7.0	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 7.0	Not Applicable
	VSP 8400 Series	VOSS 7.0	Not Applicable
	VSP 8600 Series	VSP 8600 8.0	Not Applicable
	XA1400 Series	Not Supported	Not Applicable

Table 16: Command Line Interface product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 16: Command Line Interface product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Command Line Interface (CLI)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 4200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 17: Connectivity Fault Management product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IEEE 802.1ag Connectivity Fault Management (CFM): <ul style="list-style-type: none"> • Layer 2 Ping • TraceRoute • TraceTree 	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50 Layer 2 Ping only

Table 17: Connectivity Fault Management product support (continued)

Feature	Product	Release introduced
CFM configuration on C-VLANs	5520 Series	Not Supported
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 18: Custom Logon Banner product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Custom logon banner	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5 Note: Configurable using CLI only.
	XA1400 Series	VOSS 8.0.50



VOSS Features D to F

Table 19: Denial-of-service attack prevention product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Directed Broadcast	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1.1
	VSP 8400 Series	VOSS 5.1.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
High Secure mode (hsecure boot configuration flag)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4450 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 20: DHCPv6 Guard product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 20: DHCPv6 Guard product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
DHCPv6 Guard	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.0
	VSP 8400 Series	VOSS 5.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 21: Differentiated Services product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Differentiated Services (DiffServ) including Per-Hop Behavior	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 22: Digital Certificate/PKI product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Digital Certificate/PKI Note:	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1.2

Table 22: Digital Certificate/PKI product support (continued)

Feature	Product	Release introduced
VOSS Releases 6.0 and 6.0.1 do not support this feature.	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1.2
	VSP 8400 Series	VOSS 5.1.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50
Subject alternative name	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.1.3
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.1.3
	VSP 7400 Series	VOSS 8.0.6
	VSP 8200 Series	VOSS 7.1.3
	VSP 8400 Series	VOSS 7.1.3
	VSP 8600 Series	Not Supported
Certificate fingerprint validation	5520 Series	VOSS 8.3
	VSP 4450 Series	VOSS 8.3
	VSP 4900 Series	VOSS 8.3
	VSP 7200 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
	VSP 8200 Series	VOSS 8.3
	VSP 8400 Series	VOSS 8.3
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.3

Table 23: Distributed Virtual Routing product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Distributed Virtual Routing (DvR) Controller Important: Because of a change in VOSS 6.0.1.2, the best practice is to use	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.1.5 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	VSP 7200 Series	VOSS 6.0.1

Table 23: Distributed Virtual Routing product support (continued)

Feature	Product	Release introduced
a minimum software version of 6.0.1.2 in DvR deployments.	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0.1
	VSP 8400 Series	VOSS 6.0.1
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported
Distributed Virtual Routing (DvR) Leaf Important: Because of a change in VOSS 6.0.1.2, the best practice is to use a minimum software version of 6.0.1.2 in DvR deployments.	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0.1
	VSP 8400 Series	VOSS 6.0.1
	VSP 8600 Series	Not supported
	XA1400 Series	Not Supported
Distributed Virtual Routing (DvR) dvr-one-ip	5520 Series	VOSS 8.3
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3
	VSP 7200 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
	VSP 8200 Series	VOSS 8.3
	VSP 8400 Series	VOSS 8.3
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported

Table 23: Distributed Virtual Routing product support (continued)

Feature	Product	Release introduced
Distributed Virtual Routing (DvR) In-band Management	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0.1
	VSP 8400 Series	VOSS 6.0.1
	VSP 8600 Series	Not supported
	XA1400 Series	Not Supported

Table 24: Domain Name Service product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Domain Name Service (DNS) client (IPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
DNS client (IPv6)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 25: Dynamic ARP Inspection (DAI) product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 25: Dynamic ARP Inspection (DAI) product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Dynamic ARP Inspection (DAI)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1
	VSP 8400 Series	VOSS 6.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 26: Dynamic Host Configuration Protocol product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Dynamic Host Configuration Protocol (DHCP) Relay	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 26: Dynamic Host Configuration Protocol product support (continued)

Feature	Product	Release introduced
DHCP Option 82	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 27: Dynamic Host Configuration Protocol Relay for IPv6 product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IPv6 DHCP Relay	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 28: Dynamic Host Configuration Protocol Snooping and Neighbor Discovery Inspection product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 28: Dynamic Host Configuration Protocol Snooping and Neighbor Discovery Inspection product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
DHCP Snooping(IPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1
	VSP 8400 Series	VOSS 6.1
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.0.50
DHCP Snooping (IPv6)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
Neighbor Discovery Inspection (IPv6)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 29: Dynamic Nickname Assignment product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 29: Dynamic Nickname Assignment product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Dynamic Nickname Assignment	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0.5
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
Extends the assignment behavior with a <i>prefix</i> parameter	5520 Series	VOSS 8.3
	VSP 4450 Series	VOSS 8.3
	VSP 4900 Series	VOSS 8.3
	VSP 7200 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
	VSP 8200 Series	VOSS 8.3
	VSP 8400 Series	VOSS 8.3
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 30: Egress Tunnel Shaping product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 30: Egress Tunnel Shaping product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Egress Tunnel Shaping	5520 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.1

Table 31: Endpoint Tracking product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Endpoint Tracking	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	VOSS 8.1.1
	VSP 7400 Series	VOSS 8.1.1
	VSP 8200 Series	VOSS 8.1.1
	VSP 8400 Series	VOSS 8.1.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 32: Energy Efficient Ethernet product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Energy Efficient Ethernet (EEE)	5520 Series	VOSS 8.2.5 All fixed ports on 5520-24T, 5520-24W, 5520-48T, 5520-48W, and 5520-12MW-36W
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.1

Table 32: Energy Efficient Ethernet product support (continued)

Feature	Product	Release introduced
		All fixed ports on VSP4900-48P and ports 1/1-1/12 on VSP4900-12MXU-12XE
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	VOSS 8.1 8424GT
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 33: Energy Saver product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Energy Saver	5520 Series	VOSS 8.2.5 All fixed ports on 5520-24T, 5520-24W, 5520-48T, 5520-48W, and 5520-12MW-36W
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1 VSP4900-48P and ports 1/1 to 1/12 on VSP4900-12MXU-12XE only
	VSP 7200 Series	VOSS 7.0 VSP 7254XTQ only
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 34: Enhanced Secure Mode product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 34: Enhanced Secure Mode product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Enhanced Secure mode	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.2
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
Enhanced Secure mode for JITC and non-JITC sub-modes.	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 35: Enterprise Device Manager product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Enterprise Device Manager (EDM)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 35: Enterprise Device Manager product support (continued)

Feature	Product	Release introduced
Read-Only user for EDM	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	VSP 8600 8.0 demo feature
	XA1400 Series	VOSS 8.0.50

Table 36: Entity MIB product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Entity MIB - Physical Table	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50
Entity MIB enhancements and integration for the following: <ul style="list-style-type: none"> Physical Table Alias Mapping Table Physical Contains Table Last Change Time object 	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1.2
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1.2
	VSP 8400 Series	VOSS 6.1.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50

Table 37: Equal Cost Multiple Path for IPv4 product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 37: Equal Cost Multiple Path for IPv4 product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Equal Cost Multiple Path (ECMP) for IPv4	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 38: Equal Cost Multiple Path for IPv6 product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
ECMP for IPv6	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 39: ECMP Pathlist with Fabric Connect product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 39: ECMP Pathlist with Fabric Connect product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
ECMP Pathlist with Fabric Connect (IS-IS routes)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.1.5
	VSP 4900 Series	VOSS 8.1.5
	VSP 7200 Series	VOSS 8.1.5
	VSP 7400 Series	VOSS 8.1.5
	VSP 8200 Series	VOSS 8.1.5
	VSP 8400 Series	VOSS 8.1.5
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.1.5

Table 40: E-Tree and Private VLANs product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
E-Tree and Private VLANs	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 41: Extensible Authentication Protocol over LAN product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 41: Extensible Authentication Protocol over LAN product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Extensible Authentication Protocol (EAP) and EAP over LAN (EAPoL)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
EAPoL MHMA-MV	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
EAPoL enhancements: Enhanced MHMV, Fail Open VLAN, Guest VLAN	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1
	VSP 8400 Series	VOSS 6.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 41: Extensible Authentication Protocol over LAN product support (continued)

Feature	Product	Release introduced
EAP enhancements: EAP on Flex UNI ports, Auto-sense ports, auto-isid-offset	5520 Series	VOSS 8.3
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3
	VSP 7200 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
	VSP 8200 Series	VOSS 8.3
	VSP 8400 Series	VOSS 8.3
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
EAP enhancements: Wake On LAN, Guest I-SID, Fail-Open-I-SID	5520 Series	VOSS 8.3
	VSP 4450 Series	VOSS 8.3
	VSP 4900 Series	VOSS 8.3
	VSP 7200 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
	VSP 8200 Series	VOSS 8.3
	VSP 8400 Series	VOSS 8.3
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
Non EAPoL MAC RADIUS authentication	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.2.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.2.1
	VSP 8400 Series	VOSS 4.2.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 41: Extensible Authentication Protocol over LAN product support (continued)

Feature	Product	Release introduced
QoS Priority Assignment	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
RADIUS Dynamic User-Based Policies	5520 Series	VOSS 8.3
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3
	VSP 7200 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
	VSP 8200 Series	VOSS 8.3
	VSP 8400 Series	VOSS 8.3
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 42: Extreme Integrated Application Hosting product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Extreme Integrated Application Hosting	5520 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.1.5 VSP4900-12MXU-12XE and VSP4900-24XE only
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 42: Extreme Integrated Application Hosting product support (continued)

Feature	Product	Release introduced
Fabric IPsec Gateway virtual machine	5520 Series	Not supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.2
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 43: Extreme Management Center backup configuration ZIP file product support

Feature	Product	Release introduced
Extreme Management Center backup configuration ZIP file For more information, see Extreme Management Center documentation.	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1.2
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1.2
	VSP 8400 Series	VOSS 6.1.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50

Table 44: Fabric Attach product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 44: Fabric Attach product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Fabric Attach	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.0
	VSP 8400 Series	VOSS 5.0
	VSP 8600 Series	VSP 8600 6.3
	XA1400 Series	Not Supported

Table 45: Fabric Attach Zero Touch Client Attachment product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Fabric Attach Zero Touch Client Attachment	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	VSP 8600 6.3
	XA1400 Series	Not Supported

Table 46: Fabric Extend product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Fabric Extend	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.0*

Table 46: Fabric Extend product support (continued)

Feature	Product	Release introduced
*Platforms require an Open Networking Adapter (ONA).	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.0
	VSP 8400 Series	VOSS 5.0
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.0.50
Fabric Extend over IPsec	5520 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3 through Fabric IPsec Gateway
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.2 through Fabric IPsec Gateway
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.0.50
Digital Certificate Authentication for Fabric Extend over IPsec	5520 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3 through Fabric IPsec Gateway
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.3 through Fabric IPsec Gateway
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.3

Table 46: Fabric Extend product support (continued)

Feature	Product	Release introduced
ECMP support for Fabric Extend	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.0.50

Table 47: Fabric Mode product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Fabric BCB mode	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
Fabric BEB mode	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50

Table 48: Fabric RSPAN product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 48: Fabric RSPAN product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Fabric RSPAN (Mirror to I-SID)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0 Flow-based mirroring into single I-SID only
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 49: FDB Protected by Port product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
FDB protected by port (MAC security limit-learning)	5520 Series	VOSS 8.3
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.3
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 50: Flight Recorder product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 50: Flight Recorder product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Flight Recorder for system health monitoring	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 51: Forward Error Correction product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Forward Error Correction (FEC) (configurable)	5520 Series	VOSS 8.2.5 5520-VIM-4YE only
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	VOSS 8.1 VIM5-4YE at 25 Gbps
	VSP 7200 Series	Not Applicable
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	Not Supported
	VSP 8400 Series	VOSS 8.0
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Applicable



VOSS Features G to I

Table 52: High-Availability product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
High Availability-CPU (HA-CPU) for a standalone switch	5520 Series	Not Applicable
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	Not Applicable
	VSP 7200 Series	Not Applicable
	VSP 7400 Series	Not Applicable
	VSP 8200 Series	Not Applicable
	VSP 8400 Series	Not Applicable
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Applicable
High Availability-CPU (HA-CPU) for Layer 2 with Simplified vIST	5520 Series	Not Applicable
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	Not Applicable
	VSP 7200 Series	Not Applicable
	VSP 7400 Series	Not Applicable
	VSP 8200 Series	Not Applicable
	VSP 8400 Series	Not Applicable
	VSP 8600 Series	VSP 8600 6.3
	XA1400 Series	Not Applicable

Table 52: High-Availability product support (continued)

Feature	Product	Release introduced
High Availability-CPU (HA-CPU) for Layer 3 with Simplified vIST	5520 Series	Not Applicable
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	Not Applicable
	VSP 7200 Series	Not Applicable
	VSP 7400 Series	Not Applicable
	VSP 8200 Series	Not Applicable
	VSP 8400 Series	Not Applicable
	VSP 8600 Series	VSP 8600 6.3
	XA1400 Series	Not Applicable

Table 53: IEEE 802.3X Pause Frame Transmit product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IEEE 802.3X Pause frame transmit	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.1.50

Table 54: Internet Control Message Protocol product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 54: Internet Control Message Protocol product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Internet Control Message Protocol (ICMP)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
ICMP broadcast and multicast enable or disable	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 55: Internet Group Management Protocol product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 55: Internet Group Management Protocol product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Internet Group Management Protocol (IGMP), including virtualization	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 56: Internet Key Exchange product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Internet Key Exchange (IKE) v2 Note: VOSS Releases 6.0 and 6.0.1 do not support this feature.	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1.2
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1.2
	VSP 8400 Series	VOSS 5.1.2
	VSP 8600 Series	VSP 8600 8.0 demonstration feature
	XA1400 Series	VOSS 8.0.50

Table 57: Internet Protocol Flow Information eXport (IPFIX) product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 57: Internet Protocol Flow Information eXport (IPFIX) product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Internet Protocol Flow Information eXport (IPFIX)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 58: Inter-VSN Routing product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Inter-VSN routing (IPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50

Table 58: Inter-VSN Routing product support (continued)

Feature	Product	Release introduced
Inter-VSN routing (IPv6)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported

Table 59: IOC Module Preconfiguration

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IOC Module Preconfiguration	5520 Series	Not Applicable
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	Not Applicable
	VSP 4900 Series	Not Applicable
	VSP 7200 Series	Not Applicable
	VSP 7400 Series	Not Applicable
	VSP 8200 Series	Not Applicable
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Applicable

Table 60: IP Phone product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 60: IP Phone product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IP Phone Support	5520 Series	VOSS 8.3
	VSP 4450 Series	VOSS 8.3
	VSP 4900 Series	VOSS 8.3
	VSP 7200 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
	VSP 8200 Series	VOSS 8.3
	VSP 8400 Series	VOSS 8.3
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 61: IP Multicast over Fabric Connect product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IP Multicast over Fabric Connect	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 61: IP Multicast over Fabric Connect product support (continued)

Feature	Product	Release introduced
Universal Plug and Play (uPnP) Filtering	5520 Series	VOSS 8.3
	VSP 4450 Series	VOSS 8.3
	VSP 4900 Series	VOSS 8.3
	VSP 7200 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
	VSP 8200 Series	VOSS 8.3
	VSP 8400 Series	VOSS 8.3
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 62: IP Route Policies product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IP route policies	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 63: IP Shortcuts product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 63: IP Shortcuts product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IP Shortcut routing including ECMP	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50
IPv6 Shortcut routing	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported
IPv4 IS-IS accept policies	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50

Table 63: IP Shortcuts product support (continued)

Feature	Product	Release introduced
IPv6 IS-IS accept policies	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 8.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 8.0
	VSP 8400 Series	VOSS 8.0
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported

Table 64: IP Source Guard product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IP Source Guard (IPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1
	VSP 8400 Series	VOSS 6.1
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.0.50
IP Source Guard (IPv6)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1
	VSP 8400 Series	VOSS 6.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 65: IP Source Routing product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 65: IP Source Routing product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IP Source Routing enable or disable	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 66: IPsec product support

Feature	Product	Release introduced	Release deprecated
For configuration details, see VOSS User Guide .			
IPsec NAT-T	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	Not Supported	Not Applicable
	VSP 4900 Series	Not Supported	Not Applicable
	VSP 7200 Series	Not Supported	Not Applicable
	VSP 7400 Series	Not Supported	Not Applicable
	VSP 8200 Series	Not Supported	Not Applicable
	VSP 8400 Series	Not Supported	Not Applicable
	VSP 8600 Series	Not Supported	Not Applicable
	XA1400 Series	VOSS 8.1.50	Not Applicable
IPsec transport mode	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 4.2	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 4.2	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	Not Supported	Not Applicable
	XA1400 Series	Not Supported	Not Applicable

Table 66: IPsec product support (continued)

Feature	Product	Release introduced	Release deprecated
IPsec tunnel mode	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	Not Supported	Not Applicable
	VSP 4900 Series	Not Supported	Not Applicable
	VSP 7200 Series	Not Supported	Not Applicable
	VSP 7400 Series	Not Supported	Not Applicable
	VSP 8200 Series	Not Supported	Not Applicable
	VSP 8400 Series	Not Supported	Not Applicable
	VSP 8600 Series	Not Supported	Not Applicable
	XA1400 Series	VOSS 8.0.50	Not Applicable
IPsec for the Out-of-band management port (IPv4)	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	VOSS 4.2	VOSS 8.2
	VSP 4900 Series	VOSS 8.1	VOSS 8.2
	VSP 7200 Series	VOSS 4.2.1	VOSS 8.2
	VSP 7400 Series	VOSS 8.0	VOSS 8.2
	VSP 8200 Series	VOSS 4.2	VOSS 8.2
	VSP 8400 Series	VOSS 4.2	VOSS 8.2
	VSP 8600 Series	VSP 8600 6.2	Not Applicable
	XA1400 Series	Not Applicable	Not Applicable
IPsec for the Out-of-band management port (IPv6)	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	VOSS 6.0	VOSS 8.2
	VSP 4900 Series	VOSS 8.1	VOSS 8.2
	VSP 7200 Series	VOSS 6.0	VOSS 8.2
	VSP 7400 Series	VOSS 8.0	VOSS 8.2
	VSP 8200 Series	VOSS 6.0	VOSS 8.2
	VSP 8400 Series	VOSS 6.0	VOSS 8.2
	VSP 8600 Series	VSP 8600 6.2	Not Applicable
	XA1400 Series	Not Applicable	Not Applicable

Table 66: IPsec product support (continued)

Feature	Product	Release introduced	Release deprecated
Digital Certificates for IPsec Authentication	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	Not Supported	Not Applicable
	VSP 4900 Series	VOSS 8.3 for Fabric Extend over IPsec	Not Applicable
	VSP 7200 Series	Not Supported	Not Applicable
	VSP 7400 Series	VOSS 8.3 for Fabric Extend over IPsec	Not Applicable
	VSP 8200 Series	Not Supported	Not Applicable
	VSP 8400 Series	Not Supported	Not Applicable
	VSP 8600 Series	Not Supported	Not Applicable
	XA1400 Series	VOSS 8.3 for Fabric Extend over IPsec	Not Applicable

Table 67: IPv6-in-IPv4 tunnels product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IPv6-in-IPv4 tunnels	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 68: IPv6 Router Advertisement (RA) Guard product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 68: IPv6 Router Advertisement (RA) Guard product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IPv6 Router Advertisement (RA) Guard	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.0
	VSP 8400 Series	VOSS 5.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 69: IQ Agent product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
ExtremeCloud IQ Agent	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not supported
	VSP 4900 Series	VOSS 8.2 VSP4900-48P only VIMs: VIM5-4YE, VIM5-4X, VIM5-4XE, and VIM5-2Y only
	VSP 7200 Series	Not supported
	VSP 7400 Series	VOSS 8.2
	VSP 8200 Series	Not supported
	VSP 8400 Series	Not supported
	VSP 8600 Series	Not supported
	XA1400 Series	VOSS 8.2

Table 70: IS-IS product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 70: IS-IS product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IS-IS authentication with SHA-256	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50
Suspend duplicate system ID detection	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1
	VSP 8400 Series	VOSS 6.1
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50
Multiple IS-IS parallel adjacencies	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported



VOSS Features J to L

Table 71: Key Health Indicator product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Key Health Indicator (KHI)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 72: Layer 2 Video Surveillance install script product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Layer 2 Video Surveillance install script	5520 Series	Not Supported
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1

Table 72: Layer 2 Video Surveillance install script product support (continued)

Feature	Product	Release introduced
		To support this feature, VIM installation is mandatory in VSP4900-48P.
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 73: Layer 2 VSN product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Equal Cost Trees (ECT)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
Layer 2 Virtual Service Network (VSN)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 73: Layer 2 VSN product support (continued)

Feature	Product	Release introduced
Switched UNI	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.0
	VSP 8400 Series	VOSS 5.0
	VSP 8600 Series	VSP 8600 6.3
	XA1400 Series	Not Supported
Transparent Port UNI (T-UNI)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.2.1
	VSP 8400 Series	VOSS 4.2.1
	VSP 8600 Series	VSP 8600 6.3
	XA1400 Series	Not Supported

Table 74: Layer 3 Video Surveillance install script product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Layer 3 Video Surveillance install script (formerly known as the run vms endura script)	5520 Series	Not Supported
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1

Table 74: Layer 3 Video Surveillance install script product support (continued)

Feature	Product	Release introduced
		To support this feature, VIM installation is mandatory in VSP4900-48P.
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 75: Layer 3 VSN product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Layer 3 VSN	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50

Table 76: Licensing product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 76: Licensing product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
License files signed using Extreme Networks signature.	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1.2
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1.2
	VSP 8400 Series	VOSS 6.1.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50
Subscription-based licenses	5520 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.0.50

Table 77: Link Layer Discovery Protocol product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Industry Standard Discovery Protocol (ISDP) (CDP compatible)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 77: Link Layer Discovery Protocol product support (continued)

Feature	Product	Release introduced
Link Layer Discovery Protocol (LLDP)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50
Link Layer Discovery Protocol-Media Endpoint Discovery (LLDP-MED)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	VOSS 8.0.50

Table 78: Link-state tracking (LST) product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 78: Link-state tracking (LST) product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Link-state tracking (LST)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	VSP 8600 8.0 demonstration feature
	XA1400 Series	Not Supported

Table 79: Linux kernel version product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Linux kernel version Important: For VSP 4450 Series, VSP 7200 Series, VSP 8200, and VSP 8400 Series, kernel version 4.9 has special upgrade considerations the first time you upgrade to a release that supports it. You must first upgrade to a stepping-stone release, 6.1.x , before you upgrade to the release with the new kernel.	5520 Series	4.14 as of VOSS 8.2.5
	VSP 4450 Series	4.9 as of VOSS 7.0
	VSP 4900 Series	4.14 as of VOSS 8.1
	VSP 7200 Series	4.9 as of VOSS 7.0
	VSP 7400 Series	4.14 as of VOSS 8.0
	VSP 8200 Series	4.9 as of VOSS 7.0
	VSP 8400 Series	4.9 as of VOSS 7.0
	VSP 8600 Series	4.9 as of VSP 8600 8.0
	XA1400 Series	4.14 as of VOSS 8.1

Table 80: Logs and traps product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 80: Logs and traps product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Logging to a file and syslog (IPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
Logging to a file and syslog (IPv6)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported
Simple Mail Transfer Protocol (SMTP) for log notification	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50

Table 80: Logs and traps product support (continued)

Feature	Product	Release introduced
System Logging compliance with RFC 5424 and RFC 3339	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1.2
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1.2
	VSP 8400 Series	VOSS 6.1.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50
TLS client for secure syslog Note: VOSS Releases 6.0 and 6.0.1 do not support this feature.	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1.2
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1.2
	VSP 8400 Series	VOSS 5.1.2
	VSP 8600 Series	VSP 8600 8.0 demo feature
	XA1400 Series	VOSS 8.0.50



VOSS Features M to O

Table 81: MACsec product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
MACsec 2AN mode Note: VOSS 5.0 officially removed the replay protection commands. Do not use replay protection in earlier releases.	5520 Series	Not Supported
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	Not Supported
	VSP 7200 Series	VOSS 4.2.1 VSP 7254XTQ only
	VSP 7400 Series	Not Supported
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
MACsec 4AN mode	5520 Series	VOSS 8.2.5 <ul style="list-style-type: none"> • 5520-24T and 5520-24W - all fixed ports except 1/25 and 1/26 • 5520-12MW-36W, 5520-48SE, 5520-48T, and 5520-48W - all fixed ports except 1/49 and 1/50 • VIMs: 5520-VIM-4XE and 5520-VIM-4YE only
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0 VSP 7254XTQ only
	VSP 7400 Series	Not Supported
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 81: MACsec product support (continued)

Feature	Product	Release introduced
MACsec encryption cipher suites	5520 Series	VOSS 8.2.5 <ul style="list-style-type: none"> 5520-24T and 5520-24W - all fixed ports except 1/25 and 1/26 5520-12MW-36W, 5520-48SE, 5520-48T, and 5520-48W - all fixed ports except 1/49 and 1/50 VIMs: 5520-VIM-4XE and 5520-VIM-4YE only
	VSP 4450 Series	VOSS 8.1 128 bits only
	VSP 4900 Series	VOSS 8.1 <ul style="list-style-type: none"> VSP4900-48P supports 128-bit on all fixed ports. VSP4900-24XE supports 128-bit and 256-bit on all fixed ports. VSP4900-12MXU-12XE supports 128-bit and 256-bit on the SFP+ ports. VIM5-4XE and VIM5-4YE supports 128-bit and 256-bit cipher suite.
	VSP 7200 Series	VOSS 8.1 128 bits only
	VSP 7400 Series	Not Supported
	VSP 8200 Series	VOSS 8.1 128 bits only
	VSP 8400 Series	VOSS 8.1 128 bits only
	VSP 8600 Series	VSP 8600 6.2 8624XS supports 128 bits only. 8606CQ supports 128 bits and 256 bits.
	XA1400 Series	Not Supported

Table 81: MACsec product support (continued)

Feature	Product	Release introduced
MACsec Key Agreement (MKA)	5520 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	VOSS 8.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 82: Mroute statistics product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Multicast route (mroute) statistics for IPv4 and IPv6	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 83: MSTP-Fabric Connect Multi Homing product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 83: MSTP-Fabric Connect Multi Homing product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
MSTP-Fabric Connect Multi Homing	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 84: Multicast Listener Discovery product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Multicast Listener Discovery (MLD)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 85: MultiLink Trunking product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 85: MultiLink Trunking product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
MultiLink Trunking (MLT) / Link Aggregation Group (LAG)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 86: Multiple CLI Users product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Multiple CLI users per role	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	VSP 8600 8.0 demonstration feature
	XA1400 Series	VOSS 8.0.50

Table 87: Network Load Balancing product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 87: Network Load Balancing product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Network Load Balancing (NLB) - multicast operation	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
Network Load Balancing (NLB) - unicast operation	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 88: Network operating system personality product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 88: Network operating system personality product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Dual-boot personalities	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 89: Network Time Protocol product support

Feature	Product	Release introduced	Release deprecated
For configuration details, see VOSS User Guide .			
NTPv3 client	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	VSP 4000 4.0	VOSS 8.2
	VSP 4900 Series	VOSS 8.1	VOSS 8.2
	VSP 7200 Series	VOSS 4.2.1	VOSS 8.2
	VSP 7400 Series	VOSS 8.0	VOSS 8.2
	VSP 8200 Series	VSP 8200 4.0	VOSS 8.2
	VSP 8400 Series	VOSS 4.2	VOSS 8.2
	VSP 8600 Series	VSP 8600 4.5	Not Applicable
	XA1400 Series	VOSS 8.0.50	VOSS 8.2
NTPv3 with SHA authentication	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	VOSS 5.1	VOSS 8.2
	VSP 4900 Series	VOSS 8.1	VOSS 8.2
	VSP 7200 Series	VOSS 5.1	VOSS 8.2
	VSP 7400 Series	VOSS 8.0	VOSS 8.2
	VSP 8200 Series	VOSS 5.1	VOSS 8.2
	VSP 8400 Series	VOSS 5.1	VOSS 8.2
	VSP 8600 Series	VSP 8600 4.5	Not Applicable
	XA1400 Series	VOSS 8.0.50	VOSS 8.2

Table 89: Network Time Protocol product support (continued)

Feature	Product	Release introduced	Release deprecated
NTPv4 client for IPv4	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 7.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 7.0	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 7.0	Not Applicable
	VSP 8400 Series	VOSS 7.0	Not Applicable
	VSP 8600 Series	VSP 8600 8.0	Not Applicable
	XA1400 Series	Not Supported	Not Applicable
NTPv4 client for IPv6	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 7.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 7.0	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 7.0	Not Applicable
	VSP 8400 Series	VOSS 7.0	Not Applicable
	VSP 8600 Series	VSP 8600 8.0	Not Applicable
	XA1400 Series	Not Supported	Not Applicable
NTPv4 master and restrict	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 8.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 8.0	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 8.0	Not Applicable
	VSP 8400 Series	VOSS 8.0	Not Applicable
	VSP 8600 Series	VSP 8600 8.0 demonstration feature	Not Applicable
	XA1400 Series	Not Supported	Not Applicable

Table 90: nni-mstp boot flag product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 90: nni-mstp boot flag product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
nni-mstp boot flag (boot config flags nni-mstp)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 91: OSPF product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Open Shortest Path First (OSPF)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 91: OSPF product support (continued)

Feature	Product	Release introduced
Secure hash algorithm 1 (SHA-1) and SHA-2	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.2
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 92: OSPFv3 product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
OSPFv3	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported



VOSS Features P to R

Table 93: PIM over IPv6 product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
PIM over IPv6	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 94: Port Mirroring product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Ingress mirroring (port and flow-based)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 94: Port Mirroring product support (continued)

Feature	Product	Release introduced
Egress mirroring (port-based)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 95: Power Manager product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Power Management	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 96: Power over Ethernet product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Power over Ethernet (PoE)	5520 Series	VOSS 8.2.5 5520-12MW-36W, 5520-24W and 5520-48W only
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1

Table 96: Power over Ethernet product support (continued)

Feature	Product	Release introduced
		VSP4900-48P and first 12 ports of VSP4900-12MXU-12XE only
	VSP 7200 Series	Not Applicable
	VSP 7400 Series	Not Applicable
	VSP 8200 Series	Not Applicable
	VSP 8400 Series	Not Applicable
	VSP 8600 Series	Not Applicable
	XA1400 Series	Not Supported
PoE/PoE+ allocation using LLDP	5520 Series	VOSS 8.2.5 5520-12MW-36W, 5520-24W and 5520-48W only
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1 VSP4900-48P and first 12 ports of VSP4900-12MXU-12XE only
	VSP 7200 Series	Not Applicable
	VSP 7400 Series	Not Applicable
	VSP 8200 Series	Not Applicable
	VSP 8400 Series	Not Applicable
	VSP 8600 Series	Not Applicable
	XA1400 Series	Not Supported
Fast PoE	5520 Series	VOSS 8.2.5 5520-12MW-36W, 5520-24W and 5520-48W only
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	VOSS 8.1 VSP4900-48P and first 12 ports of VSP4900-12MXU-12XE only
	VSP 7200 Series	Not Applicable
	VSP 7400 Series	Not Applicable
	VSP 8200 Series	Not Applicable
	VSP 8400 Series	Not Applicable
	VSP 8600 Series	Not Applicable
	XA1400 Series	Not Supported

Table 96: Power over Ethernet product support (continued)

Feature	Product	Release introduced
Perpetual PoE	5520 Series	VOSS 8.2.5 5520-12MW-36W, 5520-24W and 5520-48W only
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	VOSS 8.1 VSP4900-48P and first 12 ports of VSP4900-12MXU-12XE only.
	VSP 7200 Series	Not Applicable
	VSP 7400 Series	Not Applicable
	VSP 8200 Series	Not Applicable
	VSP 8400 Series	Not Applicable
	VSP 8600 Series	Not Applicable
	XA1400 Series	Not Supported

Table 97: Protocol Independent Multicast-Source Specific Mode product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
PIM-Source Specific Mode (PIM-SSM) for IPv4	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.0.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 98: Protocol Independent Multicast - Sparse Mode product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 98: Protocol Independent Multicast - Sparse Mode product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Protocol Independent Multicast-Sparse Mode (PIM-SM) for IPv4	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.0.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 99: QoS and VoIP product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide . Platform specific considerations for QoS behavior are documented in QoS Behavior Differences, which is in VOSS User Guide .		
Automatic QoS	5520 Series	Not Supported Use Auto-sense with IP Phone support instead
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 100: Queue Profiles product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 100: Queue Profiles product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
QoS per queue rate limiting	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1.1
	VSP 8400 Series	VOSS 5.1.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 101: RADIUS product support

Feature	Product	Release introduced	Release deprecated
For configuration details, see VOSS User Guide .			
RADIUS (IPv6)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 4.1	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 4.1	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 6.2	Not Applicable
	XA1400 Series	Not Supported	Not Applicable
RADIUS attributes: <ul style="list-style-type: none"> • Acct-Terminate-Cause • Event-Timestamp • Service Type 	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 7.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 7.0	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 7.0	Not Applicable
	VSP 8400 Series	VOSS 7.0	Not Applicable
	VSP 8600 Series	VSP 8600 8.0	Not Applicable
	XA1400 Series	Not Supported	Not Applicable

Table 101: RADIUS product support (continued)

Feature	Product	Release introduced	Release deprecated
RADIUS, community-based users (IPv4)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VSP 4000 4.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 4.2.1	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VSP 8200 4.0	Not Applicable
	VSP 8400 Series	VOSS 4.2	Not Applicable
	VSP 8600 Series	VSP 8600 4.5	Not Applicable
	XA1400 Series	VOSS 8.0.50	Not Applicable
RADIUS secure communication using IPSec for IPv4 Note: VOSS Releases 6.0 and 6.0.1 do not support this feature.	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	VOSS 5.1.2	VOSS 8.2
	VSP 4900 Series	VOSS 8.1	VOSS 8.2
	VSP 7200 Series	VOSS 5.1.2	VOSS 8.2
	VSP 7400 Series	VOSS 8.0	VOSS 8.2
	VSP 8200 Series	VOSS 5.1.2	VOSS 8.2
	VSP 8400 Series	VOSS 5.1.2	VOSS 8.2
	VSP 8600 Series	VSP 8600 8.0 demonstration feature	Not Applicable
	XA1400 Series	VOSS 8.0.50	VOSS 8.2
RADIUS secure communication using IPSec for IPv6 Note: VOSS Releases 6.0 and 6.0.1 do not support this feature.	5520 Series	Not Supported	Not Applicable
	VSP 4450 Series	VOSS 5.1.2	VOSS 8.2
	VSP 4900 Series	VOSS 8.1	VOSS 8.2
	VSP 7200 Series	VOSS 5.1.2	VOSS 8.2
	VSP 7400 Series	VOSS 8.0	VOSS 8.2
	VSP 8200 Series	VOSS 5.1.2	VOSS 8.2
	VSP 8400 Series	VOSS 5.1.2	VOSS 8.2
	VSP 8600 Series	VSP 8600 8.0 demonstration feature	Not Applicable
	XA1400 Series	Not Supported	Not Applicable

Table 101: RADIUS product support (continued)

Feature	Product	Release introduced	Release deprecated
RADIUS Security (RADSec)	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 8.2	Not Applicable
	VSP 4900 Series	VOSS 8.2	Not Applicable
	VSP 7200 Series	VOSS 8.2	Not Applicable
	VSP 7400 Series	VOSS 8.2	Not Applicable
	VSP 8200 Series	VOSS 8.2	Not Applicable
	VSP 8400 Series	VOSS 8.2	Not Applicable
	VSP 8600 Series	Not Supported	Not Applicable
	XA1400 Series	VOSS 8.2	Not Applicable
RFC 5176 – Dynamic Authorization Extensions to RADIUS	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 7.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 7.0	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 7.0	Not Applicable
	VSP 8400 Series	VOSS 7.0	Not Applicable
	VSP 8600 Series	Not supported	Not Applicable
	XA1400 Series	VOSS 8.0.50	Not Applicable
RFC 5997 – RADIUS Reachability Server Status	5520 Series	VOSS 8.2.5	Not Applicable
	VSP 4450 Series	VOSS 7.0	Not Applicable
	VSP 4900 Series	VOSS 8.1	Not Applicable
	VSP 7200 Series	VOSS 7.0	Not Applicable
	VSP 7400 Series	VOSS 8.0	Not Applicable
	VSP 8200 Series	VOSS 7.0	Not Applicable
	VSP 8400 Series	VOSS 7.0	Not Applicable
	VSP 8600 Series	Not supported	Not Applicable
	XA1400 Series	VOSS 8.0.50	Not Applicable

Table 102: Rate Limiting, Policing, and Shaping product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		

Table 102: Rate Limiting, Policing, and Shaping product support (continued)

Feature	Product	Release introduced
Platform specific considerations for QoS behavior are documented in QoS Behavior Differences, which is in VOSS User Guide .		
Egress port shaper	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported
Ingress dual rate port policers	5520 Series	Not Supported
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported
QoS ingress port rate limiter	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	Not Supported
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.1.50

Table 103: Remote Monitoring product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Remote Monitoring 1 (RMON1) for Layer 1 and Layer 2	5520 Series	VOSS 8.2.5

Table 103: Remote Monitoring product support (continued)

Feature	Product	Release introduced
Note: VOSS Release 5.0 and 5.1 do not support RMON1.	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported
Remote Monitoring 2 (RMON2) for network and application layer protocols	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.2
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.2

Table 104: Representational State Transfer Configuration Protocol (RESTCONF) product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Representational State Transfer Configuration Protocol (RESTCONF)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 8.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 8.0
	VSP 8400 Series	VOSS 8.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 105: RIPng product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 105: RIPng product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
RIPng	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.0
	VSP 8400 Series	VOSS 5.0
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 106: Routing Information Protocol product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Routing Information Protocol (RIP)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 107: RSMLT for IPv4 product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 107: RSMLT for IPv4 product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IPv4 RSMLT	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 108: RSMLT for IPv6 product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IPv6 RSMLT	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 109: run spbm installation script product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 109: run spbm installation script product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
run spbm installation script	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported



VOSS Features S to U

Table 110: Secure Shell product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Secure Shell (SSH) server (IPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
Secure Shell (SSH) client (IPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 110: Secure Shell product support (continued)

Feature	Product	Release introduced
Secure Sockets Layer (SSL) certificate management	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
SSH server (IPv6)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported
SSH client (IPv6)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported

Table 110: Secure Shell product support (continued)

Feature	Product	Release introduced
SSH client disable	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
SSH key sizes in multiples of 1024 Note: VOSS Releases 6.0 and 6.0.1 do not support this change.	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1.2
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1.2
	VSP 8400 Series	VOSS 5.1.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50
SSH rekey	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.1

Table 111: Segmented Management Instance product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 111: Segmented Management Instance product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Segmented Management Instance - Management Interface CLIP	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	VOSS 8.1.1 - IPv4 only Note: VOSS 8.1.50 does not support this feature.
Segmented Management Instance - Management Interface OOB	5520 Series	VOSS 8.2.5
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.2
	VSP 7200 Series	VOSS 8.2
	VSP 7400 Series	VOSS 8.2
	VSP 8400 Series	VOSS 8.2
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
Segmented Management Instance - Management Interface VLAN	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.1.1 - IPv4 only Note: VOSS 8.1.50 does not support this feature.

Table 111: Segmented Management Instance product support (continued)

Feature	Product	Release introduced
Segmented Management Instance — ability to migrate VLAN or loopback IP address	5520 Series	Not Applicable
	VSP 4450 Series	VOSS 8.2
	VSP 4900 Series	VOSS 8.2
	VSP 7200 Series	VOSS 8.2
	VSP 7400 Series	VOSS 8.2
	VSP 8200 Series	VOSS 8.2
	VSP 8400 Series	VOSS 8.2
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.2
Segmented Management Instance — DHCP Client for Management Interface OOB or Management Interface VLAN	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.2
	VSP 4900 Series	VOSS 8.2
	VSP 7200 Series	VOSS 8.2
	VSP 7400 Series	VOSS 8.2
	VSP 8200 Series	VOSS 8.2
	VSP 8400 Series	VOSS 8.2
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.2 OOB not supported

Table 112: sFlow product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
sFlow	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 112: sFlow product support (continued)

Feature	Product	Release introduced
sFlow collector reachability on user-created VRFs	5520 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 113: Simple Loop Prevention Protocol product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Simple Loop Prevention Protocol (SLPP)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 114: Simple Network Management Protocol product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 114: Simple Network Management Protocol product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Simple Network Management Protocol (SNMP) v1/2/3 (IPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
SNMP (IPv6)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 115: SLA Mon product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 115: SLA Mon product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
SLA Mon	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 116: SLPP Guard product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
SLPP Guard	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.1
	VSP 8400 Series	VOSS 6.1
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	VOSS 8.0.50

Table 117: SONMP product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 117: SONMP product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
SONMP	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 118: Spanning Tree Protocol product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Spanning Tree Protocol (STP): <ul style="list-style-type: none"> • Multiple STP (MSTP) • Rapid STP (RSTP) 	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 119: spbm-config-mode product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 119: spbm-config-mode product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
spbm-config-mode (boot config flags spbm-config-mode)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 120: SPB-PIM Gateway product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
SPB-PIM Gateway controller node	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1.5 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 120: SPB-PIM Gateway product support (continued)

Feature	Product	Release introduced
SPB-PIM Gateway interface	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 121: Static routing product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Static routing	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 122: TACACS+ product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 122: TACACS+ product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
TACACS+	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
TACACS+ secure communication using IPSec for IPv4 Note: VOSS Releases 6.0 and 6.0.1 do not support this feature.	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1.2
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1.2
	VSP 8400 Series	VOSS 5.1.2
	VSP 8600 Series	VSP 8600 8.0 demonstration feature
	XA1400 Series	VOSS 8.0.50

Table 123: TLS server for secure HTTPS product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
TLS server for secure HTTPS Note:	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1.2
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1.2

Table 123: TLS server for secure HTTPS product support (continued)

Feature	Product	Release introduced
VOSS Releases 6.0 and 6.0.1 do not support this feature.	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1.2
	VSP 8400 Series	VOSS 5.1.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50

Table 124: Two-Factor Authentication for SSH product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Two-Factor Authentication for SSH	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 8.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 8.0
	VSP 8400 Series	VOSS 8.0
	VSP 8600 Series	VSP 8600 8.0 demo feature
	XA1400 Series	VOSS 8.0.50

Table 125: Unicast Reverse Path Forwarding product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Unicast Reverse Path Forwarding (URPF) checking (IPv4)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.0
	VSP 8400 Series	VOSS 5.0
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported

Table 125: Unicast Reverse Path Forwarding product support (continued)

Feature	Product	Release introduced
Unicast Reverse Path Forwarding (URPF) checking (IPv6)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.0
	VSP 8400 Series	VOSS 5.0
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	Not Supported



VOSS Features V to X

Table 126: Virtual Inter-Switch Trunk product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Switch cluster (multi-chassis LAG) -Virtual Inter-Switch Trunk (vIST)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	Not Supported

Table 127: Virtual Link Aggregation Control Protocol (VLACP) product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Virtual Link Aggregation Control Protocol (VLACP)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 127: Virtual Link Aggregation Control Protocol (VLACP) product support (continued)

Feature	Product	Release introduced
VLACP Flap Detect and Damping	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.1.5
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.1
	VSP 8200 Series	VOSS 8.1
	VSP 8400 Series	VOSS 8.1
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	VOSS 8.1

Table 128: Virtual Router Redundancy Protocol product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Virtual Router Redundancy Protocol (VRRP)	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50

Table 128: Virtual Router Redundancy Protocol product support (continued)

Feature	Product	Release introduced
VRRPv3 for IPv4	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	VSP 8600 6.1
	XA1400 Series	VOSS 8.0.50

Table 129: Virtual Router Redundancy Protocol for IPv6 product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
IPv6 VRRP	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 4.1
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported
VRRPv3 for IPv6	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 5.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 5.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 5.1
	VSP 8400 Series	VOSS 5.1
	VSP 8600 Series	VSP 8600 6.2
	XA1400 Series	Not Supported

Table 130: Virtual Routing and Forwarding product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 130: Virtual Routing and Forwarding product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Virtualization with IPv4 Virtual Routing and Forwarding (VRF) <ul style="list-style-type: none"> • ARP • DHCP Relay • Inter-VRF Routing (static, dynamic, and policy) • Local routing • OSPFv2 • RIPv1 and v2 • Route policies • Static routing • VRRP 	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VSP 8200 4.0
	VSP 8400 Series	VOSS 4.2
	VSP 8600 Series	VSP 8600 4.5
	XA1400 Series	VOSS 8.0.50
Increased VRF and Layer 3 VSN scaling	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 6.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported
iBGP over user-created VRFs	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.1
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.1
	VSP 8200 Series	VOSS 8.1
	VSP 8400 Series	VOSS 8.1
	VSP 8600 Series	VSP 8600 8.0 demonstration feature
	XA1400 Series	Not Supported

Table 130: Virtual Routing and Forwarding product support (continued)

Feature	Product	Release introduced
IPv6 Virtualization for the following features and functions: <ul style="list-style-type: none"> • IPv6 Interfaces and IPv6 Static Routes in VRFs and Layer 3 VSNs • ECMP and Alternative route • Route redistribution for static and direct routes • VRRPv3 for IPv6 • DHCP Relay • IPv6 Reverse Path Forwarding • ICMP Ping and Traceroute 	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported
IPv6 Virtualization for the following features and functions: <ul style="list-style-type: none"> • Open Shortest Path First for IPv6 (OSPFv3) • IPv6 Border Gateway Protocol (IPv6 BGP) • IPv6 route redistribution enhancements 	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 8.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 8.0
	VSP 8400 Series	VOSS 8.0
	VSP 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Supported

Table 131: VXLAN Gateway product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
VXLAN Gateway	5520 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 131: VXLAN Gateway product support (continued)

Feature	Product	Release introduced
OVSDB protocol support for VXLAN Gateway	5520 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	VOSS 7.1
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 7.1
	VSP 8400 Series	VOSS 7.1
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
ECMP support for VXLAN Gateway	5520 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	VOSS 6.0
	VSP 7400 Series	VOSS 8.0
	VSP 8200 Series	VOSS 6.0
	VSP 8400 Series	VOSS 6.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported



VOSS Features Y and Z

Table 132: Zero Touch Deployment product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Zero Touch Deployment	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.2
	VSP 4900 Series	VOSS 8.2 VIMs: VIM5-4YE, VIM5-4X, VIM5-4XE, and VIM5-2Y only
	VSP 7200 Series	VOSS 8.2
	VSP 7400 Series	VOSS 8.2
	VSP 8200 Series	VOSS 8.2
	VSP 8400 Series	VOSS 8.2
	VSP 8600 Series	Not supported
	XA1400 Series	VOSS 8.2

Table 133: Zero Touch Fabric Configuration product support

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Zero Touch Fabric Configuration	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 7.0
	VSP 7400 Series	VOSS 8.0.5
	VSP 8200 Series	VOSS 7.0
	VSP 8400 Series	VOSS 7.0
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 134: Zero Touch Provisioning Plus product support

Feature	Product	Release introduced
---------	---------	--------------------

Table 134: Zero Touch Provisioning Plus product support (continued)

Feature	Product	Release introduced
For configuration details, see VOSS User Guide .		
Zero Touch Provisioning Plus	5520 Series	VOSS 8.2.5
	VSP 4450 Series	VOSS 8.2.5
	VSP 4900 Series	VOSS 8.2.5
	VSP 7200 Series	VOSS 8.2.5
	VSP 7400 Series	VOSS 8.2.5
	VSP 8200 Series	VOSS 8.2.5
	VSP 8400 Series	VOSS 8.2.5
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.2.5