

## Fabric Engine and VOSS Feature Support Matrix

For Fabric Engine and VOSS Release 8.9

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## **About this Document**

#### Purpose on page 4

Documentation and Training on page 5 Help and Support on page 5 Send Feedback on page 6

The topics in this section discuss the purpose of this document, the conventions used, ways to provide feedback, additional help, and information regarding other Extreme Networks publications.

## **Purpose**

This document provides information on features in Extreme Networks Fabric Engine<sup>™</sup> and VSP Operating System Software (VOSS).

Fabric Engine runs on the following product families:

- ExtremeSwitching 5320 Series
- ExtremeSwitching 5420 Series
- ExtremeSwitching 5520 Series
- ExtremeSwitching 5720 Series



#### Note

Prior to Fabric Engine 8.6, 5520 Series and 5420 Series platforms ran VOSS. VOSS support ends for these platforms with VOSS 8.5.x. Unless otherwise noted, feature support introduced in earlier VOSS releases is also available in Fabric Engine releases.

VOSS runs on the following product families:

- ExtremeSwitching VSP 4450 Series
- ExtremeSwitching VSP 4900 Series
- ExtremeSwitching VSP 7200 Series
- ExtremeSwitching VSP 7400 Series
- ExtremeSwitching VSP 8200 Series
- ExtremeSwitching 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.

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#### 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.

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.

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#### Note

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 the Network Operating System (NOS) Release Notes.

This document arranges the features alphabetically, based on how those features are included in the NOS User Guide. The tables in this document also appear in the conceptual feature content of the NOS User Guide

This document distinguishes between hardware that is not capable of supporting a feature (Not Applicable) and hardware that is capable of supporting a feature but does not (Not Supported).

## **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/.

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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 Product Announcements

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

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

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

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

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

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- 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.



## Features A to C

## Table 1: Access Control Entry product support

Feature	Product	Release introduced
QoS Access Control Entries (ACE)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
IPv4 ACL filter enhancement - Apply ACE with both Security and QoS actions	5320 Series	Fabric Engine 8.6
	5420 Series	Fabric Engine 8.7
	5520 Series	Fabric Engine 8.7
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.7
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
Filter enhancement - Apply ACE	5320 Series	Fabric Engine 8.6
to Routed Packets only	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.4
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.4
	VSP 4900 Series	VOSS 8.4
	VSP 7200 Series	VOSS 8.4
	VSP 7400 Series	VOSS 8.4
	VSP 8200 Series	VOSS 8.4
	VSP 8400 Series	VOSS 8.4
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

#### Table 1: Access Control Entry product support (continued)

Feature	Product	Release introduced
Policy Based Routing (redirect- next-hop)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
Policy Based Routing (redirect- next-hop) with VRF support	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 demonstration feature
	XA1400 Series	Not Supported

#### Table 1: Access Control Entry product support (continued)

## Table 2: Access Control List product support

Feature	Product	Release introduced
Access Control List (ACL)-based	5320 Series	Fabric Engine 8.6
filtering, including egress ACLs, ingress ACLs, Layer 2 to Layer 4	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5

Feature	Product	Release introduced
filtering, port-based, and VLAN- based	5720 Series	Fabric Engine 8.7
	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
InVSN Filter	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 ACL DSCP Remarking	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.5
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.5
	VSP 8200 Series	Not Supported
	VSP 8400 Series	VOSS 8.5 Switch model: VSP 8404C
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 2: Access Control List product support (continued)

## Table 3: Address Resolution Protocol product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4

Feature	Product	Release introduced
Address Resolution Protocol (ARP) including Proxy ARP and Static ARP	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
Gratuitous ARP filtering	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 3: Address Resolution Protocol product support (continued)

#### Table 4: Advanced Feature Bandwidth Reservation product support

Feature	Product	Release introduced
Advanced Feature Bandwidth Reservation Note:	5320 Series	Fabric Engine 8.6 5320-24P-8XE, 5320-24T-8XE, 5320-48P-8XE, and 5320-48T-8XE only
If your switch does not have this boot flag, it is because	5420 Series	VOSS 8.4
the hardware reserves the	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Supported

Feature	Product	Release introduced
bandwidth automatically with no	VSP 4900 Series	Not Supported
user interaction.	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 4: Advanced Feature Bandwidth Reservation product support (continued)

#### Table 5: Alternative routes product support

Feature	Product	Release introduced
Alternative routes for IPv4	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Alternative routes for IPv6	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
Application Telemetry	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Application Telemetry Host Monitoring	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
Application Telemetry —	5320 Series	Fabric Engine 8.8
using Segmented Management Instance VLAN interface as	5420 Series	Fabric Engine 8.8
source IP	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	VSP 4450 Series	VOSS 8.8
	VSP 4900 Series	VOSS 8.8
	VSP 7200 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	VOSS 8.8
	VSP 8400 Series	VOSS 8.8
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

<b>Table 6: Application</b>	Telemetry product support (continued)
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Feature	Product	Release introduced
Application Telemetry —	5320 Series	Fabric Engine 8.8
using Segmented Management Instance CLIP interface (GRT and	5420 Series	Fabric Engine 8.8
VRF) as source IP	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	VSP 4450 Series	VOSS 8.8
	VSP 4900 Series	VOSS 8.8
	VSP 7200 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	VOSS 8.8
	VSP 8400 Series	VOSS 8.8
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

#### Table 6: Application Telemetry product support (continued)

#### Table 7: Authentication for Privileged EXEC Mode product support

Feature	Product	Release introduced
Authentication for Privileged	5320 Series	Fabric Engine 8.6
EXEC CLI Command Mode	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.4
	5720 Series	Fabric Engine 8.7
	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
Auto-Negotiation	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
		Note:

Feature	Product	Release introduced
		SFP-DD ports are only available if you disable Advanced Feature Bandwidth Reservation.
	5520 Series	VOSS 8.2.5 Only on the following switch models: 5520-24T 5520-24W 5520-48T 5520-48W 5520-48W 5520-12MW-36W 5520-48SE QSFP28/QSFP+ ports, and all fixed fiber ports, at 1 Gbps only
		<b>Note:</b> QSFP28 ports are only available if you disable Advanced Feature Bandwidth Reservation.
		5520-VIM-4XE at 1 Gbps only and 5520-VIM-4YE at 25 Gbps only
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	<ul> <li>VOSS 8.1 Switch models:</li> <li>VSP4900-24S and VSP4900-48P - all fixed ports</li> <li>VSP4900-12MXU-12XE - all fixed ports, with ports 13 to 24 at 1 Gbps only</li> <li>VSP4900-24XE - all fixed ports at 1 Gbps only</li> </ul>

#### 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
Auto-sense	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Auto-sense ports can apply Fabric Attach (FA)-specific configuration	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4.2
	5520 Series	VOSS 8.4.2
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.4.2
	VSP 4900 Series	VOSS 8.4.2
	VSP 7200 Series	VOSS 8.4.2
	VSP 7400 Series	VOSS 8.4.2
	VSP 8200 Series	VOSS 8.4.2
	VSP 8400 Series	VOSS 8.4.2
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
Auto-Sense MIB	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.5
	VSP 4900 Series	VOSS 8.5
	VSP 7200 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5
	VSP 8200 Series	VOSS 8.5
	VSP 8400 Series	VOSS 8.5
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

#### Table 9: Auto-sense product support (continued)

## Table 10: Automatic configuration of VIM speed

Feature	Product	Release introduced
	5320 Series	Not Applicable
	5420 Series	Not Applicable

Feature	Product	Release introduced
Auto-set vim-speed on 25G VIMs	5520 Series	Fabric Engine 8.9
based on inserted transceiver type	5720 Series	Fabric Engine 8.9
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	VOSS 8.9
	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 Applicable

### Table 10: Automatic configuration of VIM speed (continued)

#### Table 11: Bidirectional Forwarding Detection (BFD) product support

Feature	Product	Release introduced
BFD (IPv4)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
BFD (IPv6)	5320 Series	Fabric Engine 8.6 demonstration feature
	5420 Series	VOSS 8.4 demonstration feature
	5520 Series	VOSS 8.2.5 demonstration feature
	5720 Series	Fabric Engine 8.7 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	5320 Series	Fabric Engine 8.6
(IPv4)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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: Bidirectional Forwarding Detection (BFD) product support (continued)

#### Table 12: Border Gateway Protocol product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Border Gateway Protocol for IPv4 (BGPv4)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
BGP+ (BGPv4 for IPv6)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 12: Border Gateway Protoco	I product support (continued)
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Feature	Product	Release introduced
BGPv6	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 12: Border Gateway Protocol product support (continued)

Feature	Product	Release introduced
Internal BPG (iBGP)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
redistribution	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Table 12: Border Gateway Pr	otocol product support (continued)
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Feature	Product Release introduced	
iBGP over user-created VRFs	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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: Border Gateway Protocol product support (continued)

## Table 13: Bridge Protocol Data Unit (BPDU) Guard product support

Feature	Product	Release introduced
Bridge Protocol Data Unit	5320 Series	Fabric Engine 8.6
(BPDU) Guard	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 14: Certificate order priority product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Certificate order priority	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 15: Channelization product support

Feature	Product	Release introduced
Channelization of 40 Gbps ports	5320 Series	Not Applicable
	5420 Series	Not Applicable
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	VOSS 8.1
	VSP 7200 Series	VOSS 4.2.1
	VSP 7400 Series	VOSS 8.0 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

Feature	Product	Release introduced
Auto-Channelization of 40 Gbps ports	5320 Series	Not Applicable
	5420 Series	Not Applicable
	5520 Series	Fabric Engine 8.9
	5720 Series	Fabric Engine 8.9
	VSP 4900 Series	VOSS 8.9
	VSP 7200 Series	VOSS 8.9
	VSP 7400 Series	VOSS 8.9 VSP 7432CQ only
	VSP 8200 Series	VOSS 8.9
	VSP 8400 Series	VOSS 8.9
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Applicable
	VSP 4450 Series	Not Applicable
Channelization of 100 Gbps ports	5320 Series	Not Applicable
	5520 Series	VOSS 8.2.5
	5420 Series	Not Applicable
	5720 Series	Fabric Engine 8.7
	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: Channelization product support (continued)

Feature	Product Release introduced	
Auto-Channelization of 100 Gbps	5320 Series	Not Applicable
ports	5420 Series	Not Applicable
	5520 Series	Fabric Engine 8.9
	5720 Series	Fabric Engine 8.9
	VSP 4450 Series	Not Applicable
	VSP 4900 Series	Not Applicable
	VSP 7200 Series	Not Applicable
	VSP 7400 Series	VOSS 8.9 VSP 7432CQ only
	VSP 8200 Series	Not Applicable
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Applicable

Table 15: Channelizatio	n product support (continued)
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#### Table 16: Client and Server product support

Feature	Product	Release introduced	Release deprecated
File Transfer Protocol	5320 Series	Fabric Engine 8.6	Not Applicable
(FTP) server and client (IPv4)	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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

Feature	Product	Release introduced	Release deprecated
File Transfer Protocol	5320 Series	Fabric Engine 8.6	Not Applicable
(FTP) server and client (IPv6)	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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	5320 Series	Fabric Engine 8.6	Not Applicable
Protocol (HTTP) and Hypertext Transfer	5420 Series	VOSS 8.4	Not Applicable
Protocol Secure (HTTPS) (IPv4)	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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

Table 16: Client and Server	r product support (	(continued)
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Feature	Product	Release introduced	Release deprecated
Hypertext Transfer Protocol (HTTP) and Hypertext Transfer Protocol Secure (HTTPS) (IPv6)	5320 Series	Fabric Engine 8.6	Not Applicable
	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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
Remote Login (Rlogin)	5320 Series	Not Supported	Not Applicable
server/client (IPv4)	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
	5720 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

#### Table 16: Client and Server product support (continued)

Feature	Product	Release introduced	Release deprecated
Rlogin server (IPv6)	5320 Series	Not Supported	Not Applicable
	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
	5720 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)	5320 Series	Not Supported	Not Applicable
	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
	5720 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 16: Client and Server product support (continued)

Feature	Product	Release introduced	Release deprecated
Remote Shell (RSH) server/client	5320 Series	Not Supported	Not Applicable
	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
	5720 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)	5320 Series	Fabric Engine 8.6	Not Applicable
Note:	5420 Series	VOSS 8.4	Not Applicable
The switch does not	5520 Series	VOSS 8.2.5	Not Applicable
support the WinSCP client.	5720 Series	Fabric Engine 8.7	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

Table 16: Client and Server product support (continued)

Feature	Product	Release introduced	Release deprecated
Secure File Transfer Protocol (SFTP) server (IPv4)	5320 Series	Fabric Engine 8.6	Not Applicable
	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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
Secure File Transfer	5320 Series	Fabric Engine 8.6	Not Applicable
Protocol (SFTP) server (IPv6)	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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

Feature	Product	Release introduced	Release deprecated
Telnet server and client (IPv4)	5320 Series	Fabric Engine 8.6	Not Applicable
	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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	5320 Series	Fabric Engine 8.6	Not Applicable
(IPv6)	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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 16: Client and Server product support (continued)

Feature	Product	Release introduced	Release deprecated
Trivial File Transfer Protocol (TFTP) server and client (IPv4)	5320 Series	Fabric Engine 8.6	Not Applicable
	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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)	5320 Series	Fabric Engine 8.6	Not Applicable
	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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 16: Client and Server product support (continued)

Feature	Product	Release introduced	Release deprecated
TFTP client (IPv6)	5320 Series	Fabric Engine 8.6	Not Applicable
	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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: Client and Server	product support (continued)
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# Table 17: Command Line Interface product support

Feature	Product	Release introduced
Command Line Interface (CLI)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 18: Connectivity Fault Management product support

Feature	Product	Release introduced
<ul><li>IEEE 802.1ag Connectivity Fault Management (CFM):</li><li>Layer 2 Ping</li><li>TraceRoute</li></ul>	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7

Feature	Product	Release introduced
• TraceTree	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
CFM configuration on C-VLANs	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 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: Connectivity Fault Management product support (continued)

#### Table 19: Custom Logon Banner product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Custom logon banner	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
		<b>Note:</b> Configurable using CLI only.
	XA1400 Series	VOSS 8.0.50

Table 19: Custom Logon Banner	product support (continued)
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# **Features D to F**

### Table 20: Denial-of-service attack prevention product support

Feature	Product	Release introduced
Directed Broadcast	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
High Secure mode (hsecure boot	5320 Series	Fabric Engine 8.6
configuration flag)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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: Denial-of-service attack prevention product support (continued)

#### Table 21: DHCPv6 Guard product support

Feature	Product	Release introduced
DHCPv6 Guard	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 22: Differentiated Services product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Differentiated Services (DiffServ)	5420 Series	VOSS 8.4
including Per-Hop Behavior	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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: Differentiated Services product support (continued)

## Table 23: Digital Certificate/PKI product support

Feature	Product	Release introduced
Digital Certificate/PKI	5320 Series	Fabric Engine 8.6
Note:	5420 Series	VOSS 8.4
VOSS Releases 6.0 and 6.0.1 do	5520 Series	VOSS 8.2.5
not support this feature.	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Subject alternative name	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
	XA1400 Series	VOSS 8.1
Certificate fingerprint validation	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	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: Digital Certificate/PKI product support (continued)

Feature	Product	Release introduced
Multiple CA Trustpoints and	5320 Series	Fabric Engine 8.6
multiple Certificate Identities	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.3.100
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.5
	VSP 4900 Series	VOSS 8.5
	VSP 7200 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5
	VSP 8200 Series	VOSS 8.5
	VSP 8400 Series	VOSS 8.5
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.5

## Table 23: Digital Certificate/PKI product support (continued)

#### Table 24: Distributed Virtual Routing Controller product support

Feature	Product	Release introduced
DvR Controller	5320 Series	Not Supported
Important:	5420 Series	Not Supported
Because of a change in VOSS	5520 Series	VOSS 8.2.5
6.0.1.2, the best practice is to use a minimum software version of	5720 Series	Fabric Engine 8.7
6.0.1.2 in DvR deployments.	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
	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

Feature	Product	Release introduced
DvR Isolated Domain	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.8 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	VSP 7200 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	VOSS 8.8
	VSP 8400 Series	VOSS 8.8
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
dvr-one-ip	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	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 24: Distributed Virtual Routing Controller product support (continued)

Feature	Product	Release introduced
Distributed Virtual Routing (DvR) In-band Management	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.1 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	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
DvR-VRRP Coexistence	5320 Series	Not Supported
Important:	5420 Series	Not Supported
To use this functionality, you	5520 Series	Fabric Engine 8.8
must upgrade the software on all DvR BEBs, including Leaf	5720 Series	Fabric Engine 8.8
nodes, to at least the minimum software version to support this	VSP 4450 Series	Not Supported
functionality.	VSP 4900 Series	VOSS 8.8 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	VSP 7200 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	VOSS 8.8
	VSP 8400 Series	VOSS 8.8
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

## Table 24: Distributed Virtual Routing Controller product support (continued)

# Table 25: Distributed Virtual Routing Leaf product support

Feature	Product	Release introduced
DvR Leaf Important:		Fabric Engine 8.6 5320-48P-8XE and 5320-48T-8XE only
	5420 Series	VOSS 8.4

Feature	Product	Release introduced
Because of a change in VOSS 6.0.1.2, the best practice is to use a minimum software version of	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
6.0.1.2 in DvR deployments.	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
DvR In-band Management	5320 Series	Fabric Engine 8.6 5320-48P-8XE and 5320-48T-8XE only
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 25: Distributed Virtual Routing Leaf product support (continued)

Feature	Product	Release introduced
Management I-SID Assignment to DvR Leaf	5320 Series	Fabric Engine 8.6 5320-48P-8XE and 5320-48T-8XE only
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.5
	VSP 4900 Series	VOSS 8.5
	VSP 7200 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5
	VSP 8200 Series	VOSS 8.5
	VSP 8400 Series	VOSS 8.5
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

# Table 26: Domain Name Service product support

Feature	Product	Release introduced
Domain Name Service (DNS)	5320 Series	Fabric Engine 8.6
client (IPv4)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
DNS client (IPv6)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 27: Dynamic ARP Inspection (DAI) product support

Feature	Product	Release introduced
Dynamic ARP Inspection (DAI)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 28: Dynamic Host Configuration Protocol product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Dynamic Host Configuration Protocol (DHCP) Relay	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
DHCP Option 82	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 28: Dynamic Host Configuration Protocol product support	t (continued)
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# Table 29: Dynamic Host Configuration Protocol Relay for IPv6 product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
IPv6 DHCP Relay	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 30: Dynamic Host Configuration Protocol Snooping and Neighbor Discovery Inspectionproduct support

Feature	Product	Release introduced
DHCP Snooping(IPv4)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
DHCP Snooping (IPv6)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
(IPv6)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 30: Dynamic Host Configuration Protocol Snooping and Neighbor Discovery Inspectionproduct support (continued)

#### Table 31: Dynamic Nickname Assignment product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Dynamic Nickname Assignment	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
behavior with a <i>prefix</i> parameter	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	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 31: Dynamic Nickname Assignment product su	upport (continued)
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# Table 32: Egress Tunnel Shaping product support

Feature	Product	Release introduced
	5320 Series	Not Supported

Feature	Product	Release introduced
Egress Tunnel Shaping	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 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
Egress Shaper for Fabric Extend	5320 Series	Not Supported
tunnels on Fabric IPsec Gateway virtual machine	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Fabric Engine 8.7 5720-24MXW and 5720-48MXW
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3.1 VSP4900-12MXU-12XE and VSP4900-24XE only
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.3.1
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 32: Egress Tunnel Shaping product support (cor	ntinued)
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# Table 33: Endpoint Tracking product support

Feature	Product	Release introduced
	5320 Series	Not Supported

Feature	Product	Release introduced
Endpoint Tracking	5420 Series	Not Supported
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.7
	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 33: Endpoint	Tracking product support (continued)
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# Table 34: Energy Efficient Ethernet product support

Feature	Product	Release introduced
Energy Efficient Ethernet (EEE)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4 All fixed ports on 5420F-24T-4XE, 5420F-24P-4XE, 5420F-48T-4XE, 5420F-48P-4XE, 5420F-48P-4XL, 5420F-8W-16P-4XE, 5420F-16MW-32P-4XE, 5420M-24W-4YE, 5420M-24W-4YE, 5420M-24T-4YE, 5420M-48T-4YE, 5420M-16MW-32P-4YE
	5520 Series	VOSS 8.2.5 All fixed ports on 5520-24T, 5520-24W, 5520-48T, 5520-48W, and 5520-12MW-36W
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.1

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 ESM only
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 34: Energy Efficient Ethernet product support (continued)

Feature	Product	Release introduced
Energy Saver	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4 Switch models: 5420F-24T-4XE, 5420F-24P-4XE, 5420F-48T-4XE, 5420F-48P-4XE, 5420F-48P-4XL, 5420F-8W-16P-4XE, 5420F-16W-32P-4XE, 5420F-16MW-32P-4XE, 5420M-24W-4YE, 5420M-24W-4YE, 5420M-24T-4YE, 5420M-48T-4YE, 5420M-16MW-32P-4YE
	5520 Series	VOSS 8.2.5 All fixed ports on 5520-24T, 5520-24W, 5520-48T, 5520-48W, and 5520-12MW-36W
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 7.0
	VSP 4900 Series	VOSS 8.1 VSP4900-48P and ports 1/1 to 1/12 onVSP4900-12MXU-12XE only
	VSP 7200 Series	VOSS 7.0

Feature	Product	Release introduced
		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 35: Energy	Saver product support	(continued)
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# Table 36: Enhanced Secure Mode product support

Feature	Product	Release introduced
Enhanced Secure mode	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
and non-JITC sub-modes.	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Enhanced Secure mode -	5320 Series	Fabric Engine 8.6
sensitive file protection	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.5
	VSP 4900 Series	VOSS 8.5
	VSP 7200 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5
	VSP 8200 Series	VOSS 8.5
	VSP 8400 Series	VOSS 8.5
	VSP 8600 Series	Not supported
	XA1400 Series	VOSS 8.5

#### Table 36: Enhanced Secure Mode product support (continued)

#### Table 37: Enterprise Device Manager product support

Feature	Product	Release introduced
Enterprise Device Manager	5320 Series	Fabric Engine 8.6
(EDM)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Read-Only user for EDM	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 37: Enterprise Device Manager product support (continued)

#### Table 38: Entity MIB product support

Feature	Product	Release introduced
Entity MIB - Physical Table	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Entity MIB enhancements and integration for the following: • Physical Table	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
<ul> <li>Alias Mapping Table</li> </ul>	5520 Series	VOSS 8.2.5
Physical Contains Table	5720 Series	Fabric Engine 8.7
Last Change Time object	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
Entity MIB - Logical Table	5320 Series	Fabric Engine 8.6
includes the following logical interface entities:	5420 Series	VOSS 8.4
• VLANs	5520 Series	VOSS 8.4
• MLTs	5720 Series	Fabric Engine 8.7
<ul><li>Circuitless IP (CLIP)</li><li>Fabric Extend interfaces</li></ul>	VSP 4450 Series	VOSS 8.4
(logical layer 2 and layer 3 IS-	VSP 4900 Series	VOSS 8.4
IS interfaces)	VSP 7200 Series	VOSS 8.4
	VSP 7400 Series	VOSS 8.4
	VSP 8200 Series	VOSS 8.4
	VSP 8400 Series	VOSS 8.4
	VSP 8600 Series	Not supported
	XA1400 Series	VOSS 8.4

# Table 39: Equal Cost Multiple Path for IPv4 product support

Feature	Product	Release introduced
 Equal Cost Multiple Path (ECMP) for IPv4		Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more

Feature	Product	Release introduced
		than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 39: Equal Cost Multiple Path for IPv4 product support (continued)

#### Table 40: Equal Cost Multiple Path for IPv6 product support

Feature	Product	Release introduced
ECMP for IPv6	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 41: ECMP Pathlist with Fabric Connect product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
ECMP Pathlist with Fabric	5420 Series	VOSS 8.4
Connect (IS-IS routes)	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 41: ECMP Pathlist with Fabric Connect product support (continued)

## Table 42: E-Tree and Private VLANs product support

Feature	Product	Release introduced
E-Tree and Private VLANs	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Routing on Private VLANs	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.5
	VSP 7200 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5
	VSP 8200 Series	VOSS 8.5
	VSP 8400 Series	VOSS 8.5
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 42: E-Tree and Private	VLANs product support	(continued)
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# Table 43: Extensible Authentication Protocol over LAN product support

Feature	Product	Release introduced
Extensible Authentication	5320 Series	Fabric Engine 8.6
Protocol (EAP) and EAP over LAN (EAPoL)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
EAPol MHMA-MV	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
MHMV, Fail Open VLAN, Guest VLAN	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 43: 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	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
LAN, Guest I-SID, Fail Open I-SID	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	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 43: Extensible Authentication Protocol over LAN product support (continued)

Feature	Product	Release introduced
Non EAPoL MAC RADIUS authentication	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
QoS Priority Assignment	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 43: Extensible Authentication Protocol over LAN product support (continued)

Feature	Product	Release introduced
RADIUS Dynamic User-Based Policies	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	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
RADIUS Port and VLAN based	5320 Series	Fabric Engine 8.6
Attributes	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.4
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.4
	VSP 4900 Series	VOSS 8.4
	VSP 7200 Series	VOSS 8.4
	VSP 7400 Series	VOSS 8.4
	VSP 8200 Series	VOSS 8.4
	VSP 8400 Series	VOSS 8.4
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 43: Extensible Authentication Protocol over LAN product support (continued)

Feature	Product	Release introduced
Continuity Mode for Fail Open	5320 Series	Fabric Engine 8.6
VLAN and Fail Open I-SID	5420 Series	Fabric Engine 8.6
	5520 Series	Fabric Engine 8.6
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.6
	VSP 4900 Series	VOSS 8.6
	VSP 7200 Series	VOSS 8.6
	VSP 7400 Series	VOSS 8.6
	VSP 8200 Series	VOSS 8.6
	VSP 8400 Series	VOSS 8.6
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 43: Extensible Authentication Protocol over LAN product support (continued)

#### Table 44: Extreme Integrated Application Hosting product support

Feature	Product	Release introduced
Extreme Integrated Application	5320 Series	Not Supported
Hosting	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Fabric Engine 8.7 5720-24MXW and 5720-48MXW
	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

Feature	Product	Release introduced
Fabric IPsec Gateway virtual machine	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Fabric Engine 8.7 5720-24MXW and 5720-48MXW
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE 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	Not Supported
	VSP 4450 Series	Not Supported
Egress Shaper for Fabric Extend	5320 Series	Not Supported
tunnels on Fabric IPsec Gateway virtual machine	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Fabric Engine 8.7 5720-24MXW and 5720-48MXW
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3.1 VSP4900-12MXU-12XE and VSP4900-24XE only
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.3.1
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

# Table 45: ExtremeCloud IQ - Site Engine backup configuration ZIP file product support

Feature	Product	Release introduced
ExtremeCloud IQ - Site Engine backup configuration ZIP file	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4

Feature	Product	Release introduced
For more information, see ExtremeCloud IQ - Site Engine documentation.	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 45: ExtremeCloud IQ - Site Engine backup configuration ZIP file product support (continued)

#### Table 46: Fabric Attach product support

Feature	Product	Release introduced
Fabric Attach Server	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 47: Fabric Attach Zero Touch Client Attachment product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Fabric Attach Zero Touch Client Attachment	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 47: Fabric Attach Zero Touch Client Attachment product support (continued)

## Table 48: Fabric Extend product support

Feature	Product	Release introduced
Fabric Extend	5320 Series	Fabric Engine 8.6
Note:	5420 Series	VOSS 8.4
XA1400 Series does not support	5520 Series	VOSS 8.2.5
FE-VID.	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 5.0
		<b>Note:</b> Requires 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

Feature	Product	Release introduced
Fabric Extend over IPsec	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Fabric Engine 8.7 5720-24MXW and 5720-48MXW using Fabric IPsec Gateway
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.2 using 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	5320 Series	Not Supported
for Fabric Extend over IPsec	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Fabric Engine 8.7 5720-24MXW and 5720-48MXW using Fabric IPsec Gateway
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.3 using Fabric IPsec Gateway
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.3

Feature	Product	Release introduced
ECMP support for Fabric Extend	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
IPsec compression	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Fabric Engine 8.7 5720-24MXW and 5720-48MXW using Fabric IPsec Gateway
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.7 VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.7 using Fabric IPsec Gateway
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.1.8

## Table 48: Fabric Extend product support (continued)

Feature	Product	Release introduced
Ability to adjust the maximum segment size (MSS)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3.1
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.3.1
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.1.8
IS-IS hello padding (ability to	5320 Series	Fabric Engine 8.6
disable)	5420 Series	VOSS 8.4.2
	5520 Series	VOSS 8.2.7
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.2.7
	VSP 4900 Series	VOSS 8.2.7
	VSP 7200 Series	VOSS 8.2.7
	VSP 7400 Series	VOSS 8.2.7
	VSP 8200 Series	VOSS 8.2.7
	VSP 8400 Series	VOSS 8.2.7
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.2.7

Table 48: Fabric Extend	product support	(continued)
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Feature	Product	Release introduced
IPsec fragmentation before encryption	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Fabric Engine 8.7 5720-24MXW and 5720-48MXW using Fabric IPsec Gateway
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.3.1 VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.3.1 using Fabric IPsec Gateway
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	VOSS 8.2.7
Ability to configure a specific	5320 Series	Not Supported
IPsec source IP per tunnel	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 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 8.3.1

## Table 48: Fabric Extend product support (continued)

Feature	Product	Release introduced
Parallel Tunnel Support for Fabric	5320 Series	Not Supported
Extend	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.8
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 48: Fabric Extend product support (continued)

# Table 49: Fabric Mode product support

Feature	Product	Release introduced
Fabric BCB mode	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Fabric BEB mode	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 50: Fabric RSPAN product support

Feature	Product	Release introduced
Fabric RSPAN (Mirror to I-SID)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 51: FDB Protected by Port product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
FDB protected by port (MAC	5420 Series	VOSS 8.4
security limit-learning)	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	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 51: FDB Protected by Port product support (continued)

## Table 52: Flight Recorder product support

Feature	Product	Release introduced
Flight Recorder for system health	5320 Series	Fabric Engine 8.6
monitoring	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 53: Forward Error Correction product support

Feature	Product	Release introduced
Forward Error Correction (FEC)	5320 Series	Not applicable
(configurable)	5420 Series	VOSS 8.4 5420M-24T-4YE, 5420M-24W-4YE, 5420M-16MW-32P-4YE,

Feature	Product	Release introduced
		5420M-48T-4YE, and 5420M-48W-4YE
	5520 Series	VOSS 8.2.5 5520-VIM-4YE only
	5720 Series	Fabric Engine 8.7
	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

Table 53: Forward Error Correction product support (continued)



# Features G to I

## Table 54: High-Availability product support

Feature	Product	Release introduced
High Availability-CPU (HA-CPU) for a standalone switch	5320 Series	Not Applicable
	5420 Series	Not Applicable
	5520 Series	Not Applicable
	5720 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)	5320 Series	Not Applicable
for Layer 2 with Simplified vIST	5420 Series	Not Applicable
	5520 Series	Not Applicable
	5720 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

Feature	Product	Release introduced
High Availability-CPU (HA-CPU)	5320 Series	Not Applicable
for Layer 3 with Simplified vIST	5420 Series	Not Applicable
	5520 Series	Not Applicable
	5720 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 54: High-Availability product support (continued)

#### Table 55: IEEE 802.3X Pause Frame Transmit product support

Feature	Product	Release introduced
IEEE 802.3X Pause frame	5320 Series	Fabric Engine 8.6
transmit	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 56: Internet Control Message Protocol product support

Feature	Product	Release introduced
Internet Control Message Protocol (ICMP)		Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more

Feature	Product	Release introduced
		than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 56: Internet Control Message Protocol product support (continued)

Feature	Product	Release introduced
Fragmented ICMP Packet Filtering for IPv4	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.5
	VSP 4900 Series	VOSS 8.5
	VSP 7200 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5
	VSP 8200 Series	VOSS 8.5
	VSP 8400 Series	VOSS 8.5
	VSP 8600 Series	Not supported
	XA1400 Series	VOSS 8.5
Fragmented ICMP Packet Filtering for IPv6	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.5
	VSP 4900 Series	VOSS 8.5
	VSP 7200 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5
	VSP 8200 Series	VOSS 8.5
	VSP 8400 Series	VOSS 8.5
	VSP 8600 Series	Not supported
	XA1400 Series	Not supported

## Table 56: Internet Control Message Protocol product support (continued)

# Table 57: Internet Group Management Protocol product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4

Feature	Product	Release introduced
Internet Group Management	5520 Series	VOSS 8.2.5
Protocol (IGMP), including virtualization	5720 Series	Fabric Engine 8.7
	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 57: Internet Group Management Protocol product support (continued)

#### Table 58: Internet Key Exchange product support

Feature	Product	Release introduced
Internet Key Exchange (IKE) v2	5320 Series	Fabric Engine 8.6
Note:	5420 Series	VOSS 8.4
VOSS Releases 6.0 and 6.0.1 do	5520 Series	VOSS 8.2.5
not support this feature.	5720 Series	Fabric Engine 8.7
	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 59: Internet Protocol Flow Information eXport (IPFIX) product support

Feature	Product	Release introduced
Internet Protocol Flow Information eXport (IPFIX)	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
		5320-48P-8XE and 5320-48T-8XE only
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
IPFIX — using Segmented	5320 Series	Fabric Engine 8.8
Management Instance VLAN as source IP	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 59: Internet Protocol Flow Information eXport (IPFIX) product support (continued)

Feature	Product	Release introduced
IPFIX — using Segmented	5320 Series	Fabric Engine 8.8
Management Instance CLIP (GRT and VRF) as source IP	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 59: Internet Protocol Flow Information eXport (IPFIX) product support (continued)

#### Table 60: Inter-VSN Routing product support

Feature	Product	Release introduced
Inter-VSN routing (IPv4)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Inter-VSN routing (IPv6)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 60: Inter-VSN Routing product support (continued)

# Table 61: IOC Module Preconfiguration

Feature	Product	Release introduced
IOC Module Preconfiguration	5320 Series	Not Applicable
	5420 Series	Not Applicable
	5520 Series	Not Applicable
	5720 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 8600 Series	VSP 8600 8.0
	XA1400 Series	Not Applicable
	VSP 4450 Series	Not Applicable

# Table 62: IP Phone product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
IP Phone Support	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	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 Phone	product suppor	t (continued)
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# Table 63: IP Multicast over Fabric Connect product support

Feature	Product	Release introduced
IP Multicast over Fabric Connect	5320 Series	Fabric Engine 8.6
		Note: Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
IP Multicast config-lite for Fabric Connect	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
Note:	5520 Series	Fabric Engine 8.8
There is no limit on VRF membership.	5720 Series	Fabric Engine 8.8
	VSP 4450 Series	VOSS 8.8
	VSP 4900 Series	VOSS 8.8
	VSP 7200 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	VOSS 8.8
	VSP 8400 Series	VOSS 8.8
	VSP 8600 Series	Not supported
	XA1400 Series	Not Supported
IP SPB Multicast Policy	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	VSP 4450 Series	VOSS 8.8
	VSP 4900 Series	VOSS 8.8
	VSP 7200 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	VOSS 8.8
	VSP 8400 Series	VOSS 8.8
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

## Table 63: IP Multicast over Fabric Connect product support (continued)

Feature	Product	Release introduced
Universal Plug and Play (uPnP)	5320 Series	Fabric Engine 8.6
Filtering	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	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 63: IP Multicast over Fabric Connect product support (continued)

#### Table 64: IP Route Policies product support

Feature	Product	Release introduced
IP route policies	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 65: IP Shortcuts product support

Feature	Product	Release introduced
IP Shortcut routing including ECMP	5320 Series	Fabric Engine 8.6 <b>Note:</b> Only 5320-48P-8XE and 5320-48T-8XE support more

Feature	Product	Release introduced
		than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
		Note: Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 65: IP Shortcuts product support (continued)

Feature	Product	Release introduced
IPv4 IS-IS accept policies	5320 Series	Fabric Engine 8.6
		Note: Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
IPv6 IS-IS accept policies	5320 Series	Fabric Engine 8.6
		Note: Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 66: IP Source Guard product support

Feature	Product	Release introduced
IP Source Guard (IPv4)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
IP Source Guard (IPv6)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 66: IP Source Guard product support (continued)

#### Table 67: IP Source Routing product support

Feature	Product	Release introduced
IP Source Routing enable or disable	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 68: IPsec product support

Feature	Product	Release introduced	Release deprecated
	5320 Series	Not Supported	Not Applicable

Feature	Product	Release introduced	Release deprecated
IPsec NAT-T	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
	5720 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	5320 Series	Fabric Engine 8.6	Not Applicable
	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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 68: IPsec product support (continued)

Feature	Product	Release introduced	Release deprecated
IPsec tunnel mode	5320 Series	Not Supported	Not Applicable
	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
	5720 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-	5320 Series	Not Supported	Not Applicable
band management port (IPv4)	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
	5720 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

#### Table 68: IPsec product support (continued)

Feature	Product	Release introduced	Release deprecated
IPsec for the Out-of-	5320 Series	Not Supported	Not Applicable
band management port (IPv6)	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
	5720 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
Digital Certificates for	5320 Series	Not Supported	Not Applicable
Psec Authentication	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
	5720 Series	Fabric Engine 8.7 5720-24MXW and 5720-48MXW for Fabric Extend over IPsec	Not Applicable
	VSP 4450 Series	Not Supported	Not Applicable
	VSP 4900 Series	VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE 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 68: IPsec product support (continued)

# Table 69: IPv6-in-IPv4 tunnels product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
IPv6-in-IPv4 tunnels	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 69: IPv6-in-IPv4 tunnels product support (continued)

## Table 70: IPv6 Router Advertisement (RA) Guard product support

Feature	Product	Release introduced
IPv6 Router Advertisement (RA)	5320 Series	Fabric Engine 8.6
Guard	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 71: IQ Agent product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
ExtremeCloud IQ Agent	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not supported
	VSP 4900 Series	VOSS 8.2 • VSP4900-48P • VIMs: VIM5-4YE, VIM5-4X, VIM5-4XE, and VIM5-2Y
		VOSS 8.2.5 • VSP4900-24S • VSP4900-24XE • VSP4900-12MXU-12XE • VIMs: VIM5-4Y
	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
Unified Metrics and Events Reporting	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	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 71: IQ Agent product s	support (continued)
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# Table 72: IS-IS product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
IS-IS authentication with SHA-256	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
detection	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Multiple IS-IS parallel adjacencies	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 72: IS-IS product support (continued)



# **Features J to L**

## Table 73: Key Health Indicator product support

Feature	Product	Release introduced
Key Health Indicator (KHI)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 74: Layer 2 Video Surveillance install script product support

Feature	Product	Release introduced
Layer 2 Video Surveillance install	5320 Series	Not Supported
script	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	VSP 4450 Series	VOSS 6.1
	VSP 4900 Series	VOSS 8.1

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 74: Layer 2 Video Surveillance install script product support (co	ntinued)
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# Table 75: Layer 2 VSN product support

Feature	Product	Release introduced
Equal Cost Trees (ECT)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Layer 2 Virtual Service Network (VSN)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
Switched UNI	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 75: Layer 2 VSN	product support (continued)
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Feature	Product	Release introduced
Transparent Port UNI (T-UNI)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 76: Layer 3 Video Surveillance install script product support

Feature	Product	Release introduced
Layer 3 Video Surveillance install	5320 Series	Not Supported
script (formerly known as the run vms endura script)	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	VSP 4450 Series	VOSS 4.1
	VSP 4900 Series	VOSS 8.1 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 77: Layer 3 VSN product support

Feature	Product	Release introduced
Layer 3 VSN	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
		Note: Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 77: Layer 3 VSN product support (continued)

Table 78: Licensing product support

Feature	Product	Release introduced
Universal Hardware licenses	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	Not Applicable
	XA1400 Series	Not Applicable

Feature	Product	Release introduced
License files signed using Extreme Networks signature.	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 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 78: Licensing product support (continued)

Feature	Product	Release introduced
Ability to extend the Factory Default Premier Trial License	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.4
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.4
	VSP 4900 Series	VOSS 8.4
	VSP 7200 Series	VOSS 8.4
	VSP 7400 Series	VOSS 8.4
	VSP 8200 Series	VOSS 8.4
	VSP 8400 Series	VOSS 8.4
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

#### Table 78: Licensing product support (continued)

#### Table 79: Link Debounce for WAN Links

Feature	Product	Release introduced
Link Debounce	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.4.2
	VSP 4900 Series	VOSS 8.4.2
	VSP 7200 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.4.2
	VSP 8200 Series	VOSS 8.5
	VSP 8400 Series	VOSS 8.5
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

#### Table 80: Link Layer Discovery Protocol product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4

Feature	Product	Release introduced
Industry Standard Discovery Protocol (ISDP) (CDP compatible)	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
Link Layer Discovery Protocol	5320 Series	Fabric Engine 8.6
(LLDP)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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: Link Layer Discovery Protocol product support (continued)

Feature	Product	Release introduced
Link Layer Discovery Protocol-	5320 Series	Fabric Engine 8.6
Media Endpoint Discovery (LLDP-MED)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 80: Link Layer Discovery Protocol product support (continued)

#### Table 81: Link-state tracking (LST) product support

Feature	Product	Release introduced
Link-state tracking (LST)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 82: Linux kernel version product support

Feature	Product	Release introduced
Linux kernel version	5320 Series	5.4 as of Fabric Engine 8.6
Important:	5420 Series	5.4 as of Fabric Engine 8.6
	5520 Series	5.4 as of Fabric Engine 8.6

Feature	Product	Release introduced
For VSP 4450 Series, VSP 7200	5720 Series	5.4 as of Fabric Engine 8.7
Series, VSP 8200, and VSP 8400 Series, kernel version 4.9 has	VSP 4450 Series	4.9 as of VOSS 7.0
special upgrade considerations	VSP 4900 Series	5.4 as of VOSS 8.6
the first time you upgrade to a release that supports it. You	VSP 7200 Series	4.9 as of VOSS 7.0
must first upgrade to a stepping-	VSP 7400 Series	5.4 as of VOSS 8.6
stone release, 6.1.x , before you upgrade to the release with the	VSP 8200 Series	4.9 as of VOSS 7.0
new kernel.	VSP 8400 Series	4.9 as of VOSS 7.0
	VSP 8600 Series	4.9 as of VSP 8600 8.0
	XA1400 Series	5.4 as of VOSS 8.6

## Table 82: Linux kernel version product support (continued)

#### Table 83: Logs and traps product support

Feature	Product	Release introduced
Logging to a file and syslog	5320 Series	Fabric Engine 8.6
(IPv4)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Logging to a file and syslog (IPv6)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
(SMTP) for log notification	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
System Logging compliance with RFC 5424 and RFC 3339	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
Note:	5420 Series	VOSS 8.4
VOSS Releases 6.0 and 6.0.1 do	5520 Series	VOSS 8.2.5
not support this feature.	5720 Series	Fabric Engine 8.7
	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

#### Table 83: Logs and traps product support (continued)



# Features M to O

## Table 84: MACsec product support

Feature	Product	Release introduced
MACsec 2AN mode (static)	5320 Series	Not Supported
Note:	5420 Series	Not Supported
VOSS 5.0 officially removed the	5520 Series	Not Supported
replay protection commands. Do not use replay protection in	5720 Series	Not Supported
earlier releases.	VSP 4450 Series	VSP 4000 4.0
	VSP 4900 Series	VOSS 8.5
	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

Feature	Product	Release introduced
MACsec 4AN mode (static)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5
	5520 Series	<ul> <li>VOSS 8.2.5</li> <li>5520-24T and 5520-24W - all fixed ports except 1/25 and 1/26</li> <li>5520-12MW-36W, 5520-48SE, 5520-48T, and 5520-48W - all fixed ports except 1/49 and 1/50</li> <li>VIMs: 5520-VIM-4XE and 5520-VIM-4YE only</li> </ul>
	5720 Series	<ul> <li>Fabric Engine 8.7</li> <li>5720-24MW and 5720-24MXW - all fixed ports except 1/25 and 1/26</li> <li>5720-48MW and 5720-48MXW - all fixed ports except 1/49 and 1/50</li> <li>VIMs: 5720-VIM-2CE and 5720-VIM-6YE</li> </ul>
	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

Feature	Product	Release introduced
MACsec encryption cipher suites	5320 Series	Fabric Engine 8.6 Both 128 bits and 256 bits
	5420 Series	VOSS 8.5 Both 128 bits and 256 bits
	5520 Series	<ul> <li>VOSS 8.2.5</li> <li>5520-24T and 5520-24W - all fixed ports except 1/25 and 1/26</li> <li>5520-12MW-36W, 5520-48SE, 5520-48T, and 5520-48W - all fixed ports except 1/49 and 1/50</li> <li>VIMs: 5520-VIM-4XE and 5520-VIM-4YE only</li> </ul>
	5720 Series	<ul> <li>Fabric Engine 8.7</li> <li>5720-24MW and 5720-24MXW - all fixed ports except 1/25 and 1/26</li> <li>5720-48MW and 5720-48MXW - all fixed ports except 1/49 and 1/50</li> <li>VIMs: 5720-VIM-2CE and 5720-VIM-6YE</li> </ul>
	VSP 4450 Series	VOSS 8.1 128 bits only
	VSP 4900 Series	<ul> <li>VOSS 8.1</li> <li>VSP4900-48P supports 128- bit on all fixed ports.</li> <li>VSP4900-24XE supports 128- bit and 256-bit on all fixed ports.</li> <li>VSP4900-12MXU-12XE supports 128-bit and 256-bit on the SFP+ ports.</li> <li>VIM5-4XE and VIM5-4YE supports 128-bit and 256-bit cipher suite.</li> </ul>
	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

Feature	Product	Release introduced
		8624XS supports 128 bits only. 8606CQ supports 128 bits and 256 bits.
	XA1400 Series	Not Supported
Automatic QoS priority for	5320 Series	Fabric Engine 8.9
MACsec packets on intermediate switches	5420 Series	Fabric Engine 8.9
	5520 Series	Fabric Engine 8.9
	5720 Series	Fabric Engine 8.9
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.9
	VSP 7200 Series	VOSS 8.9
	VSP 7400 Series	VOSS 8.9
	VSP 8200 Series	VOSS 8.9
	VSP 8400 Series	VOSS 8.9
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Feature	Product	Release introduced
MACsec Key Agreement (MKA)	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	<ul> <li>VOSS 8.5</li> <li>5520-24T and 5520-24W</li> <li>5520-12MW-36W, 5520-48SE, 5520-48T, and 5520-48W</li> <li>VIMs: 5520-VIM-4XE and 5520-VIM-4YE only</li> </ul>
	5720 Series	<ul> <li>Fabric Engine 8.7</li> <li>5720-24MW and 5720-24MXW - all fixed ports except 1/25 and 1/26</li> <li>5720-48MW and 5720-48MXW - all fixed ports except 1/49 and 1/50</li> <li>VIMs: 5720-VIM-2CE and 5720-VIM-6YE</li> </ul>
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.5
	VSP 7200 Series	Not Supported
	VSP 7400 Series	Not Supported
	VSP 8200 Series	Not Supported
	VSP 8400 Series	VOSS 8.1
	VSP 8600 Series	VSP 8600 8.1
	XA1400 Series	Not Supported

## Table 85: Mroute statistics product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Multicast route (mroute)	5420 Series	VOSS 8.4
statistics for IPv4 and IPv6	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 85: Mroute statistics product support (continued)

## Table 86: MSTP-Fabric Connect Multi Homing product support

Feature	Product	Release introduced
MSTP-Fabric Connect Multi	5320 Series	Fabric Engine 8.6
Homing	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 87: Multi-area SPB

Featu	ıre	Product	Release introduced
		5320 Series	Not Supported

Feature	Product	Release introduced
Multi-area SPB Boundary Node	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.4
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
Static data I-SID redistribution	5320 Series	Not Supported
for Multi-area SPB Boundary Node	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	VSP 4450 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

## Table 87: Multi-area SPB (continued)

#### Table 88: Multicast Listener Discovery product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Multicast Listener Discovery	5420 Series	VOSS 8.4
(MLD)	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 88: Multicast Listener	Discovery product support (	(continued)
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# Table 89: MultiLink Trunking product support

Feature	Product	Release introduced
MultiLink Trunking (MLT) / Link	5320 Series	Fabric Engine 8.6
Aggregation Group (LAG)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 90: Multiple CLI Users product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Multiple CLI users per role	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 90: Multiple CLI Users product support (continued)

# Table 91: Network Load Balancing product support

Feature	Product	Release introduced
Network Load Balancing (NLB) -	5320 Series	Not Supported
multicast operation	5420 Series	Not Supported
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Network Load Balancing (NLB) -	5320 Series	Not Supported
unicast operation	5420 Series	Not Supported
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 91: Network Load Balancing product support (continued)

#### Table 92: Network operating system personality product support

Feature	Product	Release introduced
Dual-boot personalities	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	Not Applicable
	XA1400 Series	Not Applicable

#### Table 93: Network Time Protocol product support

Feature	Product	Release introduced	Release deprecated
	5320 Series	Not Supported	Not Applicable

Feature	Product	Release introduced	Release deprecated
NTPv3 client	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
	5720 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	5320 Series	Not Supported	Not Applicable
	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
	5720 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 93: Network Time Protocol product support (continued)

Feature	Product	Release introduced	Release deprecated
NTPv4 client for IPv4	5320 Series	Fabric Engine 8.6	Not Applicable
	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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	5320 Series	Fabric Engine 8.6	Not Applicable
	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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

Feature	Product	Release introduced	Release deprecated
NTPv4 master and	5320 Series	Fabric Engine 8.6	Not Applicable
restrict	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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
NTP Authentication Key	5320 Series	Fabric Engine 8.8	Not Applicable
Obfuscation	5420 Series	Fabric Engine 8.8	Not Applicable
	5520 Series	Fabric Engine 8.8	Not Applicable
	5720 Series	Fabric Engine 8.8	Not Applicable
	VSP 4450 Series	VOSS 8.8	Not Applicable
	VSP 4900 Series	VOSS 8.8	Not Applicable
	VSP 7200 Series	VOSS 8.8	Not Applicable
	VSP 7400 Series	VOSS 8.8	Not Applicable
	VSP 8200 Series	VOSS 8.8	Not Applicable
	VSP 8400 Series	VOSS 8.8	Not Applicable
	VSP 8600 Series	VSP 8600 8.1	Not Applicable
	XA1400 Series	VOSS 8.8	Not Applicable

Table 93: Network Time Protocol product support (continued)

# Table 94: nni-mstp boot flag product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4

Feature	Product	Release introduced
nni-mstp boot flag ( <b>boot</b>	5520 Series	VOSS 8.2.5
config flags nni-mstp)	5720 Series	Fabric Engine 8.7
	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 94: nni-mstp boot flag product support (continued)

# Table 95: OSPF product support

Feature	Product	Release introduced
Open Shortest Path First (OSPF)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Secure hash algorithm 1 (SHA-1)	5320 Series	Fabric Engine 8.6
and SHA-2	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 95: OSPF product support (continued)

# Table 96: OSPFv3 product support

Feature	Product	Release introduced
OSPFv3	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
	5320 Series	Not Supported
interfaces	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 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 8.1
	XA1400 Series	Not Supported

## Table 96: OSPFv3 product support (continued)



# Features P to R

## Table 97: Password Hash

Feature	Product	Release introduced
SHA512 Password Hashing	5320 Series	Fabric Engine 8.8
Note:	5420 Series	Fabric Engine 8.8
When upgrading, SHA1 password	5520 Series	Fabric Engine 8.8
hashes and custom users are retained, until a factory default	5720 Series	Fabric Engine 8.8
reset or until the password hash level is changed. During	VSP 4450 Series	VOSS 8.8
a factory default reset,SHA2	VSP 4900 Series	VOSS 8.8
512-bit becomes the default password hash, all custom users	VSP 7200 Series	VOSS 8.8
are deleted, and SHA1 passwords	VSP 7400 Series	VOSS 8.8
are removed.	VSP 8200 Series	VOSS 8.8
	VSP 8400 Series	VOSS 8.8
	VSP 8600 Series	VSP 8600 8.1
	XA1400 Series	VOSS 8.8

## Table 98: PIM over IPv6 product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
PIM over IPv6	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 98: PIM	l over IPv6	product support	(continued)
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# Table 99: Port-Based Rate Limiting, Policing, and Shaping product support

Feature	Product	Release introduced
Egress port shaper	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Ingress dual rate port policers	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 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
Ingress policer and port rate	5320 Series	Fabric Engine 8.6
limiter	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.5
	VSP 7200 Series	Not Supported
	VSP 7400 Series	VOSS 8.5
	VSP 8200 Series	Not Supported
	VSP 8400 Series	Not Supported
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 99: Port-Based Rate Limiting, P	Policing, and Shaping product support (continued)
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Feature	Product	Release introduced
QoS ingress port rate limiter	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 99: Port-Based Rate Limiting, Policing, and Shaping product support (continued)

# Table 100: Port Mirroring product support

Feature	Product	Release introduced
Ingress mirroring (port and flow-	5320 Series	Fabric Engine 8.6
based)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Egress mirroring (port-based)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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: Port Mirroring product support (continued)

#### Table 101: Power Manager product support

Feature	Product	Release introduced
Power Management	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 102: Power over Ethernet product support

Feature	Product	Release introduced
Power over Ethernet (PoE)	5320 Series	Fabric Engine 8.6 5320-24P-8XE, 5320-48P-8XE, 5320-16P-4XE, and 5320-16P-4XE-DC.
	5420 Series	VOSS 8.4

Feature	Product	Release introduced
		5420F-24P-4XE, 5420F-48P-4XE, 5420F-48P-4XL, 5420F-8W-16P-4XE, 5420F-16W-32P-4XE, 5420F-16MW-32P-4XE, 5420M-24W-4YE, 5420M-24W-4YE, and 5420M-16MW-32P-4YE
	5520 Series	VOSS 8.2.5 5520-12MW-36W, 5520-24W and 5520-48W only
	5720 Series	Fabric Engine 8.7 5720-24MW, 5720-48MW, 5720-24MXW, and 5720-48MXW
	VSP 4450 Series	VSP 4000 4.0
	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 102: Power over Ethernet product support (continued)

Feature	Product	Release introduced
PoE/PoE+ allocation using LLDP	5320 Series	Fabric Engine 8.6 5320-24P-8XE, 5320-48P-8XE, 5320-16P-4XE, and 5320-16P-4XE-DC.
	5420 Series	VOSS 8.4 5420F-24P-4XE, 5420F-48P-4XE 5420F-8W-16P-4XE, , 5420F-16W-32P-4XE, 5420F-16MW-32P-4XE , 5420F-48P-4XL, 5420M-24W-4YE, 5420M-24W-4YE, and 5420M-16MW-32P-4YE
	5520 Series	VOSS 8.2.5 5520-12MW-36W, 5520-24W and 5520-48W only
	5720 Series	Fabric Engine 8.7 5720-24MW, 5720-48MW, 5720-24MXW, and 5720-48MXW
	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

## Table 102: Power over Ethernet product support (continued)

Feature	Product	Release introduced
Fast PoE	5320 Series	Fabric Engine 8.6 5320-24P-8XE, 5320-48P-8XE, 5320-16P-4XE, and 5320-16P-4XE-DC.
	5420 Series	VOSS 8.4 5420F-24P-4XE, 5420F-48P-4XE 5420F-8W-16P-4XE, 5420F-16W-32P-4XE, 5420F-16MW-32P-4XE, 5420F-48P-4XL, 5420M-24W-4YE, 5420M-48W-4YE, and 5420M-16MW-32P-4YE
	5520 Series	VOSS 8.2.5 5520-12MW-36W, 5520-24W and 5520-48W only
	5720 Series	Fabric Engine 8.7 5720-24MW, 5720-48MW, 5720-24MXW, and 5720-48MXW
	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 102: Power over Ethernet product support (continued)
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Feature	Product	Release introduced
Perpetual PoE	5320 Series	Fabric Engine 8.6 5320-24P-8XE, 5320-48P-8XE, 5320-16P-4XE, and 5320-16P-4XE-DC.
	5420 Series	VOSS 8.4 5420F-24P-4XE, 5420F-48P-4XE 5420F-8W-16P-4XE, 5420F-16W-32P-4XE, 5420F-16MW-32P-4XE, 5420F-48P-4XL, 5420M-24W-4YE, 5420M-24W-4YE, and 5420M-16MW-32P-4YE
	5520 Series	VOSS 8.2.5 5520-12MW-36W, 5520-24W and 5520-48W only
	5720 Series	Fabric Engine 8.7 5720-24MW, 5720-48MW, 5720-24MXW, and 5720-48MXW
	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 102: Power over Ethernet product support (continued)

#### Table 103: Protocol Independent Multicast-Source Specific Mode product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
PIM-Source Specific Mode (PIM-	5420 Series	VOSS 8.4
SSM) for IPv4	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 103: Protocol Independent Multicast-Source Specific Mode product support (continued)

## Table 104: Protocol Independent Multicast - Sparse Mode product support

Feature	Product	Release introduced
Protocol Independent Multicast-	5320 Series	Fabric Engine 8.6
Sparse Mode (PIM-SM) for IPv4	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
PIM Infinite Threshold for IPv4	5320 Series	Fabric Engine 8.6
and IPv6	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.5
	VSP 4900 Series	VOSS 8.5
	VSP 7200 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5
	VSP 8200 Series	VOSS 8.5
	VSP 8400 Series	VOSS 8.5
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

## Table 104: Protocol Independent Multicast - Sparse Mode product support (continued)

## Table 105: QoS and VoIP product support

Feature	Product	Release introduced
Automatic QoS	5320 Series	Not Supported Use Auto-sense with IP Phone support instead.
	5420 Series	Not Supported Use Auto-sense with IP Phone support instead.
	5520 Series	Not Supported Use Auto-sense with IP Phone support instead.
5720 Series		Not Supported

Feature	Product	Release introduced
		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 105: QoS and VolF	product support (continued)
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#### Table 106: Queue Profiles product support

Feature	Product	Release introduced
QoS per queue rate limiting	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 107: RADIUS product support

Feature	Product	Release introduced	Release deprecated
	5320 Series	Fabric Engine 8.6	Not Applicable

Feature	Product	Release introduced	Release deprecated
RADIUS (IPv6)	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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, community-	5320 Series	Fabric Engine 8.6	Not Applicable
based users (IPv4)	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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 107: RADIUS product support (continued)

Feature	Product	Release introduced	Release deprecated
RADIUS secure communication using IPSec for IPv4 Note:	5320 Series	Not Supported	Not Applicable
	5420 Series	Not Supported	Not Applicable
	5520 Series	Not Supported	Not Applicable
VOSS Releases 6.0 and	5720 Series	Not Supported	Not Applicable
6.0.1 do not support this feature.	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
RADIUS secure	5320 Series	Not Supported	Not Applicable
communication using IPSec for IPv6	5420 Series	Not Supported	Not Applicable
Note:	5520 Series	Not Supported	Not Applicable
VOSS Releases 6.0 and	5720 Series	Not Supported	Not Applicable
6.0.1 do not support this feature.	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 107: RADIUS product support (continued)

Feature	Product	Release introduced	Release deprecated
RADIUS Security (RADSec)	5320 Series	Fabric Engine 8.6	Not Applicable
	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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 -	5320 Series	Fabric Engine 8.6	Not Applicable
Dynamic Authorization Extensions to RADIUS	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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 107: RADIUS product support (continued)

Feature	Product	Release introduced	Release deprecated
RFC 5997 - RADIUS	5320 Series	Fabric Engine 8.6	Not Applicable
Reachability Server Status	5420 Series	VOSS 8.4	Not Applicable
	5520 Series	VOSS 8.2.5	Not Applicable
	5720 Series	Fabric Engine 8.7	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 107: RADIUS product support (continued)

# Table 108: Remote Monitoring product support

Feature	Product	Release introduced
Remote Monitoring 1 (RMON1)	5320 Series	Fabric Engine 8.6
for Layer 1 and Layer 2	5420 Series	VOSS 8.4
Note:	5520 Series	VOSS 8.2.5
VOSS Release 5.0 and 5.1 do not support RMON1.	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
Remote Monitoring 2 (RMON2)	5320 Series	Fabric Engine 8.6
for network and application layer protocols	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 108: Remote Monitoring product support (continued)

#### Table 109: Representational State Transfer Configuration Protocol (RESTCONF) product support

Feature	Product	Release introduced
Representational State	5320 Series	Fabric Engine 8.6
Transfer Configuration Protocol (RESTCONF)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 110: RIPng product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
RIPng	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 110: RIPng product suppor	t (continued)
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# Table 111: Routing Information Protocol product support

Feature	Product	Release introduced
Routing Information Protocol	5320 Series	Fabric Engine 8.6
(RIP)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 112: RSMLT for IPv4 product support

Feature	Product	Release introduced
	5320 Series	Not Supported

Feature	Product	Release introduced
IPv4 RSMLT	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 113: RSMLT for IPv6 product support

Feature	Product	Release introduced
IPv6 RSMLT	5320 Series	Not Supported
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 114: run spbm installation script product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
run spbm installation script	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 114: run spbm installation script product support (continued)



# Features S to U

## Table 115: Secure Shell product support

Feature	Product	Release introduced
Secure Shell (SSH) server (IPv4)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
A	1	L

Feature	Product	Release introduced
Secure Sockets Layer (SSL)	5320 Series	Fabric Engine 8.6
certificate management	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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: Secure Shell product support (continued)

Feature	Product	Release introduced
SSH client (IPv6)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
SSH client disable	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Table 115: Secure Shell product	support (continued)
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Feature	Product	Release introduced
SSH key sizes in multiples of 1024	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
Note:	5520 Series	VOSS 8.2.5
VOSS Releases 6.0 and 6.0.1 do not support this change.	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 115: Secure Shell product support (continued)

#### Table 116: Segmented Management Instance product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4

Feature	Product	Release introduced
Segmented Management Instance - Management Interface CLIP	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Not Applicable
Instance - Management Interface	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Table 116: Segmented Management Instance product support (continued	I)
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Feature	Product	Release introduced
Segmented Management	5320 Series	Fabric Engine 8.6
stance - Management Interface _AN	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 VOSS 8.2 added IPv6
		Note: VOSS 8.1.50 does not support this feature.
Segmented Management	5320 Series	Fabric Engine 8.6
Instance — ability to migrate VLAN or loopback IP address	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Table 116: Segmented Management Instance product support (continued)

Feature	Product	Release introduced
Segmented Management Instance – DHCP Client for	5320 Series	Fabric Engine 8.6 OOB not supported
Management Interface OOB or Management Interface VLAN	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	VOSS 8.2 OOB 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 OOB not supported
Segmented Management	5320 Series	Fabric Engine 8.8
Instance — sflow, Application Telemetry, and IPFIX	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	VSP 4450 Series	VOSS 8.8
	VSP 4900 Series	VOSS 8.8
	VSP 7200 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	VOSS 8.8
	VSP 8400 Series	VOSS 8.8
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

Table 116: Segmented Management Instance product support (continued	I)
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# Table 117: sFlow product support

Feature	Product	
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced	
sFlow	5420 Series	VOSS 8.4	
	5520 Series	VOSS 8.2.5	
	5720 Series	Fabric Engine 8.7	
	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	
sFlow collector reachability on	5320 Series	Not Supported	
user-created VRFs	5420 Series	Not Supported	
	5520 Series	Not Supported	
	5720 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 117: sFlow product support (continued)

Feature	Product	Release introduced
sFlow — using Segmented	5320 Series	Not Supported
Management Instance OOB interface as source IP	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.25
	5720 Series	Fabric Engine 8.7
	VSP 4450 Series	Not Supported
	VSP 4900 Series	VOSS 8.8
	VSP 7200 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	VOSS 8.8
	VSP 8400 Series	VOSS 8.8
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported
sFlow — using Segmented	5320 Series	Fabric Engine 8.8
Management Instance VLAN interface as source IP	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	VSP 4450 Series	VOSS 8.8
	VSP 4900 Series	VOSS 8.8
	VSP 7200 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	VOSS 8.8
	VSP 8400 Series	VOSS 8.8
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

## Table 117: sFlow product support (continued)

Feature	Product	Release introduced
sFlow – using Segmented	5320 Series	Fabric Engine 8.8
Management Instance CLIP interface (GRT and VRFs) as	5420 Series	Fabric Engine 8.8
source IP	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	VSP 4450 Series	VOSS 8.8
	VSP 4900 Series	VOSS 8.8
	VSP 7200 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
	VSP 8200 Series	VOSS 8.8
	VSP 8400 Series	VOSS 8.8
	VSP 8600 Series	Not Supported
	XA1400 Series	Not Supported

#### Table 117: sFlow product support (continued)

#### Table 118: Simple Loop Prevention Protocol product support

Feature	Product	Release introduced	
Simple Loop Prevention Protocol	5320 Series	Fabric Engine 8.6	
(SLPP)	5420 Series	VOSS 8.4	
	5520 Series	VOSS 8.2.5	
	5720 Series	Fabric Engine	
	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: Simple Network Management Protocol product support

Feature	Feature Product	
	5320 Series	Fabric Engine 8.6

Feature	Product Release introduced	
Simple Network Management	5420 Series	VOSS 8.4
Protocol (SNMP) v1/2/3 (IPv4)	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 120: SLA Mon product support

Feature	ture Product	
	5320 Series	Not Supported

Feature	Product	Release introduced	
SLA Mon	5420 Series	Not Supported	
	5520 Series	Not Supported	
	5720 Series	Not Supported	
	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 120: SL	A Mon	product	support	(continued)
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# Table 121: SLPP Guard product support

Feature	Product	Release introduced
SLPP Guard	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 122: SONMP product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
SONMP	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 123: Spanning Tree Protocol product support

Feature	Product	Release introduced
Spanning Tree Protocol (STP):	5320 Series	Fabric Engine 8.6
<ul><li>Multiple STP (MSTP)</li><li>Rapid STP (RSTP)</li></ul>	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 124: spbm-config-mode product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4

Feature	Product	Release introduced
spbm-config-mode (boot	5520 Series	VOSS 8.2.5
config flags spbm- config-mode)	5720 Series	Fabric Engine 8.7
	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 124: spbm-config-mode product support (continued)

## Table 125: SPB-PIM Gateway product support

Feature	Product	Release introduced
SPB-PIM Gateway controller	5320 Series	Not Supported
node	5420 Series	Not Supported
	5520 Series	VOSS 8.2.5
	5720 Series	Not Supported
	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

Feature	Product	Release introduced
SPB-PIM Gateway interface	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	VOSS 8.2.5
	5720 Series	Not Supported
	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 125: SPB-PIM Gateway product support (continued)

#### Table 126: Static routing product support

Feature	Product	Release introduced
Static routing	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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: TACACS+ product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
TACACS+	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6
using IPSec for IPv4	5420 Series	VOSS 8.4
Note:	5520 Series	VOSS 8.2.5
VOSS Releases 6.0 and 6.0.1 do not support this feature.	5720 Series	Fabric Engine 8.7
	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 128: TLS server for secure HTTPS product support

Feature	Product	Release introduced
TLS server for secure HTTPS	5320 Series	Fabric Engine 8.6
Note:	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7

Feature	Product	Release introduced
VOSS Releases 6.0 and 6.0.1 do	VSP 4450 Series	VOSS 5.1.2
not support this feature.	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

#### Table 128: TLS server for secure HTTPS product support (continued)

#### Table 129: Two-Factor Authentication for SSH product support

Feature	Product	Release introduced
Two-Factor Authentication for	5320 Series	Fabric Engine 8.6
SSH	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 130: Unicast Reverse Path Forwarding product support

Feature	Product	Release introduced
Unicast Reverse Path Forwarding (URPF) checking (IPv4)	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
		5320-48P-8XE and 5320-48T-8XE only
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
Unicast Reverse Path Forwarding (URPF) checking (IPv6)	5320 Series	Fabric Engine 8.6 5320-48P-8XE and 5320-48T-8XE only
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 130: Unicast Reverse Path Forwarding product support (continued)



# Features V to X

#### Table 131: Virtual Inter-Switch Trunk product support

Feature	Product	Release introduced
Switch cluster (multi-chassis	5320 Series	Not Supported
LAG) -Virtual Inter-Switch Trunk (vIST)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 132: Virtual Link Aggregation Control Protocol (VLACP) product support

Feature	Product	Release introduced
Virtual Link Aggregation Control	5320 Series	Fabric Engine 8.6
Protocol (VLACP)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
VLACP Flap Detect and Damping	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 132: Virtual Link Aggregation Control Protocol (VLACP) product support (continued)

#### Table 133: Virtual Router Redundancy Protocol product support

Feature	Product	Release introduced
Virtual Router Redundancy	5320 Series	Fabric Engine 8.6
Protocol (VRRP)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
VRRPv3 for IPv4	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 133: Virtual Router Redundancy Protocol product support (continued)

#### Table 134: Virtual Router Redundancy Protocol for IPv6 product support

Feature	Product	Release introduced
IPv6 VRRP	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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

Feature	Product	Release introduced
VRRPv3 for IPv6	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 134: Virtual	<b>Router Redundancy</b>	Protocol for IPv6	product support	(continued)
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# Table 135: Virtual Routing and Forwarding product support

Feature	Product	Release introduced
Virtualization with IPv4 Virtual Routing and Forwarding (VRF) • ARP • DHCP Relay • Inter-VRF Routing (static,	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
dynamic, and policy)	5420 Series	VOSS 8.4
<ul><li>Local routing</li><li>OSPEv2</li></ul>	5520 Series	VOSS 8.2.5
RIPv1 and v2	5720 Series	Fabric Engine 8.7
Route policies	VSP 4450 Series	VSP 4000 4.0
<ul><li>Static routing</li><li>VRRP</li></ul>	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

Feature	Product	Release introduced
Increased VRF and Layer 3 VSN scaling	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 135: Virtual Routing and Forwarding product support (cont	inued)
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Feature	Product	Release introduced
<ul> <li>IPv6 Virtualization for the following features and functions:</li> <li>IPv6 Interfaces and IPv6 Static Routes in VRFs and Layer 3 VSNs</li> </ul>	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
ECMP and Alternative route	5420 Series	VOSS 8.4
• Route redistribution for static and direct routes	5520 Series	VOSS 8.2.5
VRRPv3 for IPv6	5720 Series	Fabric Engine 8.7
<ul><li>DHCP Relay</li><li>IPv6 Reverse Path</li></ul>	VSP 4450 Series	VOSS 7.0
Forwarding	VSP 4900 Series	VOSS 8.1
ICMP Ping and Traceroute	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
<ul> <li>IPv6 Virtualization for the following features and functions:</li> <li>Open Shortest Path First for IPv6 (OSPFv3)</li> <li>IPv6 Border Gateway Protocol (IPv6 BGP)</li> </ul>	5320 Series	Fabric Engine 8.6 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
IPv6 route redistribution     enhancements	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 135: Virtual Routing and Forwarding product support (contin	ued)
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# Table 136: VXLAN Gateway product support

Feature	Product	Release introduced
	5320 Series	Not Supported

Feature	Product	Release introduced
VXLAN Gateway	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 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
OVSDB protocol support for	5320 Series	Not Supported
VXLAN Gateway	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 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

Feature	Product	Release introduced
ECMP support for VXLAN	5320 Series	Not Supported
Gateway	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 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 136: VXLAN Gateway	product support	(continued)
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# **Features Y and Z**

#### Table 137: Zero Touch Deployment product support

Feature	Product	Release introduced
Zero Touch Deployment	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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 138: Zero Touch Fabric Configuration product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Zero Touch Fabric Configuration	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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
LLDP Fabric Connect TLV	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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	VSP 8600 8.1
	XA1400 Series	Not Supported

# Table 139: Zero Touch Provisioning Plus product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Feature	Product	Release introduced
Zero Touch Provisioning Plus	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	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