Fabric Engine and VOSS Feature Support Matrix

For Fabric Engine and VOSS Release 9.0

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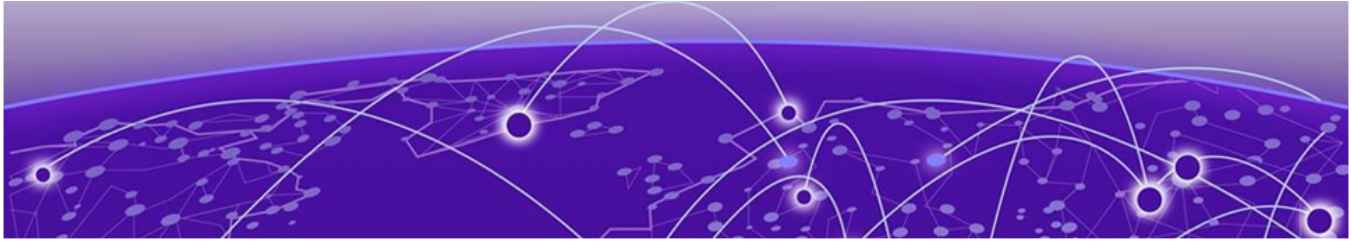

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About this Document

Purpose on page 4
Documentation and Training on page 5
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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™ and VSP Operating System Software (VOSS).

This release of Fabric Engine runs on the following product families:

- ExtremeSwitching 5320 Series
- ExtremeSwitching 5420 Series
- ExtremeSwitching 5520 Series
- ExtremeSwitching 5720 Series
- ExtremeSwitching 7520 Series
- ExtremeSwitching 7720 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.

This release of VOSS runs on the following product families:

- ExtremeSwitching VSP 4900 Series
- ExtremeSwitching VSP 7400 Series

This document identifies the release that first introduced feature support on a hardware product. Each new release includes all the features from previous releases

unless specifically stated otherwise. Use this document to determine if features are supported on your product.

Note

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 articles, white papers, and case studies

Open Source Declarations

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

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

Help and Support

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

Extreme Portal

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

The Hub

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

Call GTAC

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

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

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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.

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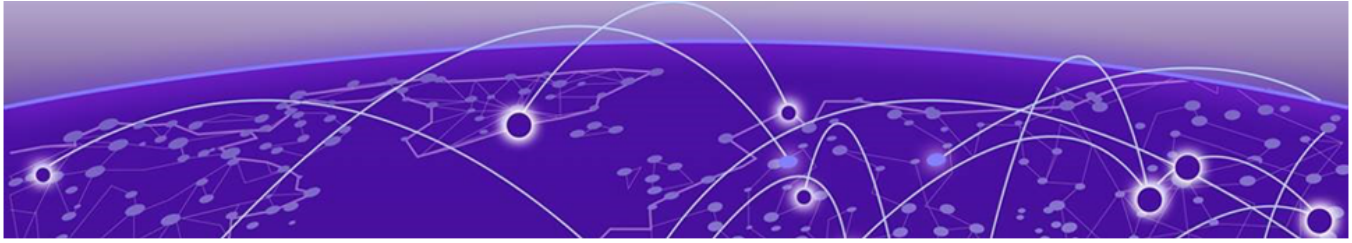
- Content errors, or confusing or conflicting information.
- Improvements that would help you find relevant information.
- Broken links or usability issues.

To send feedback, email us at documentation@extremenetworks.com.

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



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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	5720 Series	Fabric Engine 8.7
	VSP 4900 Series	Not Supported
	VSP 7400 Series	VOSS 8.7

Table 1: Access Control Entry product support (continued)

Feature	Product	Release introduced
Filter enhancement - Apply ACE to Routed Packets only	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.4
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.4
	VSP 7400 Series	VOSS 8.4
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 2: Access Control List product support

Feature	Product	Release introduced
Access Control List (ACL)-based filtering, including egress ACLs, ingress ACLs, Layer 2 to Layer 4	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7

Table 2: Access Control List product support (continued)

Feature	Product	Release introduced
filtering, port-based, and VLAN-based	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
InVSN Filter	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	5720 Series	Fabric Engine 8.7
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 2: Access Control List product support (continued)

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5

Table 3: Address Resolution Protocol product support

Feature	Product	Release introduced
Address Resolution Protocol (ARP) including Proxy ARP and Static ARP	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

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

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

Feature	Product	Release introduced
If your switch does not have this boot flag, it is because the hardware reserves the bandwidth automatically with no user interaction.	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Supported
	VSP 7400 Series	VOSS 8.0

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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 6: Application Telemetry product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 6: Application Telemetry product support (continued)

Feature	Product	Release introduced
Application Telemetry	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0.5
Application Telemetry — using Segmented Management Instance VLAN interface as source IP	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8

Table 6: Application Telemetry product support (continued)

Feature	Product	Release introduced
Application Telemetry — using Segmented Management Instance CLIP interface (GRT and VRF) as source IP	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8

Table 7: Authentication for Privileged EXEC Mode product support

Feature	Product	Release introduced
Authentication for Privileged EXEC CLI Command Mode	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.4
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.2
	VSP 7400 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:** 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 5520-12MW-36W

Table 8: Auto-Negotiation product support (continued)

Feature	Product	Release introduced
		5520-48SE QSFP28/QSFP+ ports, and all fixed fiber ports, at 1 Gbps only Note: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1 Switch models: • VSP4900-24S and VSP4900-48P - all fixed ports • VSP4900-12MXU-12XE - all fixed ports, with ports 13 to 24 at 1 Gbps only • VSP4900-24XE - all fixed ports at 1 Gbps only VIM5-4XE at 1 Gbps only and VIM5-4YE at 25 Gbps only
	VSP 7400 Series	VOSS 8.0

Table 9: Auto-nickname for SPBM product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.10

Table 9: Auto-nickname for SPBM product support (continued)

Feature	Product	Release introduced
Auto-nickname for SPBM	5420 Series	Fabric Engine 8.10
	5520 Series	Fabric Engine 8.10
	5720 Series	Fabric Engine 8.10
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.10
	VSP 7400 Series	VOSS 8.10

Table 10: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
Auto-sense 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.4.2
	VSP 7400 Series	VOSS 8.4.2
Auto-sense can apply Fabric Extend-specific configuration	5320 Series	Fabric Engine 8.10.1
	5420 Series	Fabric Engine 8.10.1
	5520 Series	Fabric Engine 8.10.1
	5720 Series	Fabric Engine 8.10.1
	7520 Series	Fabric Engine 8.10.1
	7720 Series	Fabric Engine 8.10.1
	VSP 4900 Series	VOSS 8.10.1
	VSP 7400 Series	VOSS 8.10.1

Table 10: Auto-sense product support (continued)

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5

Table 11: Automatic configuration of VIM speed

Feature	Product	Release introduced
Auto-set vim-speed on 25G VIMs based on inserted transceiver type	5320 Series	Not Applicable
	5420 Series	Not Applicable
	5520 Series	Fabric Engine 8.9
	5720 Series	Fabric Engine 8.9
	7520 Series	Not Applicable
	7720 Series	Not Applicable
	VSP 4900 Series	VOSS 8.9
	VSP 7400 Series	Not Applicable

Table 12: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.1

Table 12: Bidirectional Forwarding Detection (BFD) product support (continued)

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
	7520 Series	Fabric Engine 8.10 demonstration feature
	7720 Series	Fabric Engine 8.10 demonstration feature
	VSP 4900 Series	VOSS 8.1 demonstration feature
	VSP 7400 Series	VOSS 8.1 demonstration feature
BFD over Fabric Extend Tunnels (IPv4)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.2
	VSP 7400 Series	VOSS 8.2

Table 13: Border Gateway Protocol product support

Feature	Product	Release introduced
Border Gateway Protocol for IPv4 (BGPv4)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 13: Border Gateway Protocol product support (continued)

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
BGPv6	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 13: Border Gateway Protocol product support (continued)

Feature	Product	Release introduced
Route metric for BGP route redistribution	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.1

Table 14: Bridge Protocol Data Unit (BPDU) Guard product support

Feature	Product	Release introduced
Bridge Protocol Data Unit (BPDU) Guard	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 15: Certificate order priority product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 15: Certificate order priority product support (continued)

Feature	Product	Release introduced
Certificate order priority	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 16: 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
	7520 Series	Fabric Engine 8.10 Port 1/51 only
	7720 Series	Fabric Engine 8.10 All ports except 1/28
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0 VSP 7432CQ only
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.9
	VSP 7400 Series	VOSS 8.9 VSP 7432CQ only

Table 16: Channelization product support (continued)

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10 Port 1/51 only
	7720 Series	Fabric Engine 8.10 All ports except 1/28
	VSP 4900 Series	Not Applicable
	VSP 7400 Series	VOSS 8.0 VSP 7432CQ only
Auto-Channelization of 100 Gbps ports	5320 Series	Not Applicable
	5420 Series	Not Applicable
	5520 Series	Fabric Engine 8.9
	5720 Series	Fabric Engine 8.9
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Applicable
	VSP 7400 Series	VOSS 8.9 VSP 7432CQ only

Table 17: Client and Server product support

Feature	Product	Release introduced
File Transfer Protocol (FTP) server and 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 17: Client and Server product support (continued)

Feature	Product	Release introduced
File Transfer Protocol (FTP) server and 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Hypertext Transfer Protocol (HTTP) and Hypertext Transfer Protocol Secure (HTTPS) (IPv4)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Hypertext Transfer Protocol (HTTP) and Hypertext Transfer Protocol Secure (HTTPS) (IPv6)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Secure Copy (SCP) **Note:** The switch does not support the WinSCP client.	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 17: Client and Server product support (continued)

Feature	Product	Release introduced
Secure File Transfer Protocol (SFTP) 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Secure File Transfer Protocol (SFTP) 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Telnet server and 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Telnet server and 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 17: Client and Server product support (continued)

Feature	Product	Release introduced
Trivial File Transfer Protocol (TFTP) server and 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
TFTP 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
TFTP 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 18: Command Line Interface product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 18: Command Line Interface product support (continued)

Feature	Product	Release introduced
Command Line Interface (CLI)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 19: Connectivity Fault Management product support

Feature	Product	Release introduced
IEEE 802.1ag Connectivity Fault Management (CFM): • Layer 2 Ping • TraceRoute • TraceTree	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 20: Custom Logon Banner product support

Feature	Product	Release introduced
Custom logon banner	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Features D to F

Table 21: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
High Secure mode (hsecure boot configuration flag)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 22: DHCPv6 Guard product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 22: DHCPv6 Guard product support (continued)

Feature	Product	Release introduced
DHCPv6 Guard	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 23: Differentiated Services product support

Feature	Product	Release introduced
Differentiated Services (DiffServ) including Per-Hop Behavior	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 24: Digital Certificate/PKI product support

Feature	Product	Release introduced
Digital Certificate/PKI	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 24: Digital Certificate/PKI product support (continued)

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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0.6
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
Multiple CA Trustpoints and multiple Certificate Identities	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.3.100
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5

Table 25: Digital Certificates for IPsec Authentication product support

Feature	Product	Release introduced
Digital Certificates for IPsec Authentication	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Fabric Engine 8.7

Table 25: Digital Certificates for IPsec Authentication product support (continued)

Feature	Product	Release introduced
		5720-24MXW and 5720-48MXW for Fabric Extend over IPsec
	7520 Series	Fabric Engine 8.10 for Fabric Extend over IPsec
	7720 Series	Fabric Engine 8.10 for Fabric Extend over IPsec
	VSP 4900 Series	VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE for Fabric Extend over IPsec
	VSP 7400 Series	VOSS 8.3 for Fabric Extend over IPsec

Table 26: Distributed Virtual Routing Controller product support

Feature	Product	Release introduced
DvR Controller	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1.5 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	VSP 7400 Series	VOSS 8.0
DvR Isolated Domain	5420 Series	Not Supported
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	VSP 7400 Series	VOSS 8.8

Table 26: Distributed Virtual Routing Controller product support (continued)

Feature	Product	Release introduced
dvr-one-ip	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	VSP 7400 Series	VOSS 8.3
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	VSP 7400 Series	VOSS 8.0
DvR-VRRP Coexistence Important: To use this functionality, you must upgrade the software on all DvR BEBs, including Leaf nodes, to at least the minimum software version to support this functionality.	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	VSP 7400 Series	VOSS 8.8

Table 27: Distributed Virtual Routing Leaf product support

Feature	Product	Release introduced
DvR Leaf	5320 Series	Fabric Engine 8.6

Table 27: Distributed Virtual Routing Leaf product support (continued)

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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5

Table 28: Domain Name Service product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 28: Domain Name Service product support (continued)

Feature	Product	Release introduced
Domain Name Service (DNS) client (IPv4)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 29: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 30: Dynamic Host Configuration Protocol product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 9.0
	5420 Series	Fabric Engine 9.0

Table 30: Dynamic Host Configuration Protocol product support (continued)

Feature	Product	Release introduced
Dynamic Host Configuration Protocol (DHCP) Server	5520 Series	Fabric Engine 9.0
	5720 Series	Fabric Engine 9.0
	7520 Series	Fabric Engine 9.0
	7720 Series	Fabric Engine 9.0
	VSP 4900 Sereis	VOSS 9.0
	VSP 7400 Series	VOSS 9.0
Dynamic Host Configuration Protocol (DHCP) Relay	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
DHCP Smart Relay	5320 Series	Fabric Engine 8.10
	5420 Series	Fabric Engine 8.10
	5520 Series	Fabric Engine 8.10
	5720 Series	Fabric Engine 8.10
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.10
	VSP 7400 Series	VOSS 8.10

Table 31: Dynamic Host Configuration Protocol Relay for IPv6 product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 31: Dynamic Host Configuration Protocol Relay for IPv6 product support (continued)

Feature	Product	Release introduced
IPv6 DHCP Relay	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 32: Dynamic Host Configuration Protocol Snooping and Neighbor Discovery Inspection product 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 32: Dynamic Host Configuration Protocol Snooping and Neighbor Discovery Inspection product support (continued)

Feature	Product	Release introduced
Neighbor Discovery Inspection (IPv6)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 33: Dynamic Nickname Assignment product support

Feature	Product	Release introduced
Dynamic Nickname Assignment	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0.5
Extends the assignment behavior with a *prefix* parameter	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3

Table 34: Egress Tunnel Shaping product support

Feature	Product	Release introduced
Egress Shaper for Fabric Extend tunnels on Fabric	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported

Table 34: Egress Tunnel Shaping product support (continued)

Feature	Product	Release introduced
IPsec Gateway virtual machine	5720 Series	Fabric Engine 8.7 5720-24MXW and 5720-48MXW
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3.1 VSP4900-12MXU-12XE and VSP4900-24XE only
	VSP 7400 Series	VOSS 8.3.1

Table 35: Endpoint Tracking product support

Feature	Product	Release introduced
Endpoint Tracking	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.7
	VSP 7400 Series	VOSS 8.1.1

Table 36: 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-48W-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,

Table 36: Energy Efficient Ethernet product support (continued)

Feature	Product	Release introduced
		5520-48T, 5520-48W, and 5520-12MW-36W
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10 7520-48XT-6C only
	7720 Series	Not Supported
	VSP 4900 Series	VOSS 8.1 All fixed ports on VSP4900-48P and ports 1/1-1/12 on VSP4900-12MXU-12XE
	VSP 7400 Series	Not Supported

Table 37: Energy Saver product support

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-48W-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
	7520 Series	Fabric Engine 8.10 7520-48XT-6C only
	7720 Series	Not Supported
	VSP 4900 Series	VOSS 8.1 VSP4900-48P and ports 1/1 to 1/12

Table 37: Energy Saver product support (continued)

Feature	Product	Release introduced
		onVSP4900-12MXU-12XE only
	VSP 7400 Series	Not Supported

Table 38: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Enhanced Secure mode for JITC and non-JITC sub-modes.	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Enhanced Secure mode - sensitive file protection	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5

Table 39: Enterprise Device Manager product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 39: Enterprise Device Manager product support (continued)

Feature	Product	Release introduced
Enterprise Device Manager (EDM)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 40: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Entity MIB enhancements and integration for the following: • Physical Table • Alias Mapping Table • Physical Contains Table • Last Change Time object	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 40: Entity MIB product support (continued)

Feature	Product	Release introduced
Entity MIB - Logical Table includes the following logical interface entities: • VLANs • MLTs • Circuitless IP (CLIP) • Fabric Extend interfaces (logical layer 2 and layer 3 IS-IS interfaces)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.4
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.4
	VSP 7400 Series	VOSS 8.4

Table 41: Equal Cost Multiple Path for IPv4 product support

Feature	Product	Release introduced
Equal Cost Multiple Path (ECMP) 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 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 42: 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

Table 42: Equal Cost Multiple Path for IPv6 product support (continued)

Feature	Product	Release introduced
		more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 43: ECMP Pathlist with Fabric Connect product support

Feature	Product	Release introduced
ECMP Pathlist with Fabric Connect (IS-IS routes)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1.5
	VSP 7400 Series	VOSS 8.1.5
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Supported
	VSP 7400 Series	VOSS 8.0

Table 44: E-Tree and Private VLANs product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 44: E-Tree and Private VLANs product support (continued)

Feature	Product	Release introduced
E-Tree and Private VLANs	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5

Table 45: Extensible Authentication Protocol over LAN product support

Feature	Product	Release introduced
Extensible Authentication Protocol (EAP) and EAP over LAN (EAPoL)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 45: Extensible Authentication Protocol over LAN product support (continued)

Feature	Product	Release introduced
EAPoL enhancements: Enhanced MHMV, Fail Open VLAN, Guest VLAN	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
EAP enhancements: Wake on LAN, Guest I-SID, Fail Open I-SID	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 45: Extensible Authentication Protocol over LAN product support (continued)

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3
RADIUS Port and VLAN based Attributes	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.4
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.4
	VSP 7400 Series	VOSS 8.4

Table 45: Extensible Authentication Protocol over LAN product support (continued)

Feature	Product	Release introduced
Continuity Mode for Fail Open VLAN and Fail Open I-SID	5320 Series	Fabric Engine 8.6
	5420 Series	Fabric Engine 8.6
	5520 Series	Fabric Engine 8.6
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.6
	VSP 7400 Series	VOSS 8.6

Table 46: Extreme Integrated Application Hosting product support

Feature	Product	Release introduced
Extreme Integrated Application Hosting	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Fabric Engine 8.7 5720-24MXW and 5720-48MXW
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1.5 VSP4900-12MXU-12XE and VSP4900-24XE only
	VSP 7400 Series	VOSS 8.0

Table 46: Extreme Integrated Application Hosting product support (continued)

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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE only
	VSP 7400 Series	VOSS 8.2

Table 47: ExtremeCloud IQ - Site Engine backup configuration ZIP file product support

Feature	Product	Release introduced
ExtremeCloud IQ - Site Engine backup configuration ZIP file For more information, see ExtremeCloud IQ - Site Engine documentation.	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 48: Fabric Attach product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 48: Fabric Attach product support (continued)

Feature	Product	Release introduced
Fabric Attach Server	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 49: Fabric Attach Ring with ISW-Series Managed Industrial Ethernet Switch product support

Feature	Product	Release introduced
Fabric Attach Ring Topology Change Notification	5320 Series	Fabric Engine 9.0
	5420 Series	Fabric Engine 9.0
	5520 Series	Fabric Engine 9.0
	5720 Series	Fabric Engine 9.0
	7520 Series	Fabric Engine 9.0
	7720 Series	Fabric Engine 9.0
	VSP 4900 Series	VOSS 9.0
	VSP 7400 Series	VOSS 9.0

Table 50: Fabric Attach Zero Touch Client Attachment product support

Feature	Product	Release introduced
Fabric Attach Zero Touch Client Attachment	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 51: Fabric Extend product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 51: Fabric Extend product support (continued)

Feature	Product	Release introduced
Fabric Extend	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10 using Fabric IPsec Gateway
	7720 Series	Fabric Engine 8.10 using Fabric IPsec Gateway
	VSP 4900 Series	VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway
	VSP 7400 Series	VOSS 8.2 using Fabric IPsec Gateway

Table 52: Fabric Extend - IPsec Compression product support

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10 using Fabric IPsec Gateway
	7720 Series	Fabric Engine 8.10 using Fabric IPsec Gateway
	VSP 4900 Series	VOSS 8.7

Table 52: Fabric Extend - IPsec Compression product support (continued)

Feature	Product	Release introduced
		VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway
	VSP 7400 Series	VOSS 8.7 using Fabric IPsec Gateway

Table 53: Fabric Extend - IPsec Fragmentation before Encryption product support

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
	7520 Series	Fabric Engine 8.10 using Fabric IPsec Gateway
	7720 Series	Fabric Engine 8.10 using Fabric IPsec Gateway
	VSP 4900 Series	VOSS 8.3.1 VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway
	VSP 7400 Series	VOSS 8.3.1 using Fabric IPsec Gateway

Table 54: Fabric Extend - Parallel Tunnel product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 9.0

Table 54: Fabric Extend - Parallel Tunnel product support (continued)

Feature	Product	Release introduced
Parallel Tunnel Support for Fabric Extend	5420 Series	Fabric Engine 9.0
	5520 Series	Fabric Engine 9.0
	5720 Series	Fabric Engine 9.0
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8

Table 55: Fabric Extend Tunnel IS-IS MTU Configuration product support

Feature	Product	Release introduced
Fabric Extend Tunnel IS-IS MTU configuration	5320 Series	Fabric Engine 8.10.1
	5420 Series	Fabric Engine 8.10.1
	5520 Series	Fabric Engine 8.10.1
	5720 Series	Fabric Engine 8.10.1
	7520 Series	Fabric Engine 8.10.1
	7720 Series	Fabric Engine 8.10.1
	VSP 4900 Series	VOSS 8.10.1
	VSP 7400 Series	VOSS 8.10.1

Table 56: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 56: Fabric Mode product support (continued)

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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 57: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 58: FDB Protected by Port product support

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

Table 58: FDB Protected by Port product support (continued)

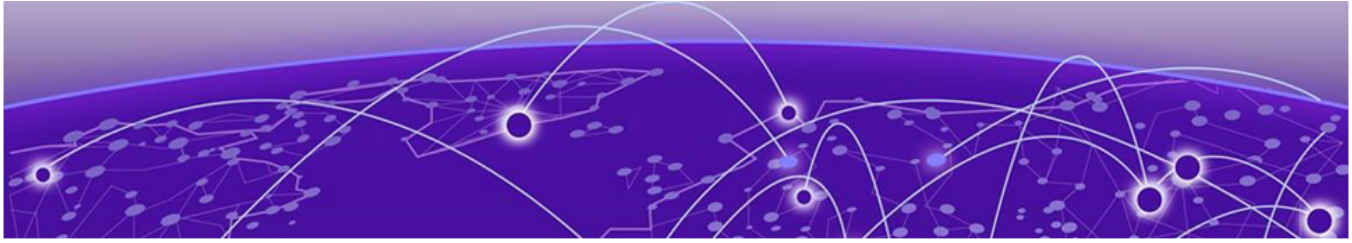
Feature	Product	Release introduced
FDB protected by port (MAC security limit-learning)	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	7520 Series	Not Supported
	7720 Series	Not Supported
	VSP 4900 Series	VOSS 8.3
	VSP 7400 Series	Not Supported

Table 59: Flight Recorder product support

Feature	Product	Release introduced
Flight Recorder for system health monitoring	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 60: Forward Error Correction product support

Feature	Product	Release introduced
Forward Error Correction (FEC) (configurable)	5320 Series	Not applicable
	5420 Series	VOSS 8.4 5420M-24T-4YE, 5420M-24W-4YE, 5420M-16MW-32P-4YE, 5420M-48T-4YE, and 5420M-48W-4YE
	5520 Series	VOSS 8.2.5 5520-VIM-4YE only
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1 VIM5-4YE at 25 Gbps
	VSP 7400 Series	VOSS 8.0



Features G to I

Table 61: IEEE 802.3X Pause Frame Transmit product support

Feature	Product	Release introduced
IEEE 802.3X Pause frame transmit	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 62: Internet Control Message Protocol product support

Feature	Product	Release introduced
Internet Control Message Protocol (ICMP)	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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 62: Internet Control Message Protocol product support (continued)

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5

Table 62: Internet Control Message Protocol product support (continued)

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5

Table 63: Internet Group Management Protocol product support

Feature	Product	Release introduced
Internet Group Management Protocol (IGMP), including virtualization	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 64: Internet Key Exchange product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 64: Internet Key Exchange product support (continued)

Feature	Product	Release introduced
Internet Key Exchange (IKE) v2	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 65: Internet Protocol Flow Information eXport (IPFIX) product support

Feature	Product	Release introduced
Internet Protocol Flow Information eXport (IPFIX)	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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Supported
	VSP 7400 Series	VOSS 8.0
IPFIX — using Segmented Management Instance VLAN as source IP	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Supported
	VSP 7400 Series	VOSS 8.8

Table 65: Internet Protocol Flow Information eXport (IPFIX) product support (continued)

Feature	Product	Release introduced
IPFIX — using Segmented Management Instance CLIP (GRT and VRF) as source IP	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Supported
	VSP 7400 Series	VOSS 8.8

Table 66: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 67: IP Phone product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 67: IP Phone product support (continued)

Feature	Product	Release introduced
IP Phone Support	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3

Table 68: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
IP Multicast config-lite for Fabric Connect Note: There is no limit on VRF membership.	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8

Table 68: IP Multicast over Fabric Connect product support (continued)

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
Universal Plug and Play (uPnP) Filtering	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.3
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3

Table 69: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 70: IP Shortcuts product support

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

Table 70: IP Shortcuts product support (continued)

Feature	Product	Release introduced
		more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 70: IP Shortcuts product support (continued)

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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 71: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 71: IP Source Guard product support (continued)

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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 72: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 73: IPsec product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 73: IPsec product support (continued)

Feature	Product	Release introduced
IPsec transport mode	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 74: IPsec NAT-T product support

Feature	Product	Release introduced
IPsec NAT-T	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
	7520 Series	Fabric Engine 8.10 using Fabric IPsec Gateway
	7720 Series	Fabric Engine 8.10 using Fabric IPsec Gateway
	VSP 4900 Series	VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway
	VSP 7400 Series	VOSS 8.2 using Fabric IPsec Gateway

Table 75: IPv4 Interface state product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.10

Table 75: IPv4 Interface state product support (continued)

Feature	Product	Release introduced
Ability to Enable or Disable an IP Interface	5420 Series	Fabric Engine 8.10
	5520 Series	Fabric Engine 8.10
	5720 Series	Fabric Engine 8.10
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.10
	VSP 7400 Series	VOSS 8.10

Table 76: IPv6-in-IPv4 tunnels product support

Feature	Product	Release introduced
IPv6-in-IPv4 tunnels	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 77: IPv6 Router Advertisement (RA) Guard product support

Feature	Product	Release introduced
IPv6 Router Advertisement (RA) Guard	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 78: IQ Agent product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 78: IQ Agent product support (continued)

Feature	Product	Release introduced
ExtremeCloud IQ Agent	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	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 7400 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Supported
	VSP 7400 Series	Not Supported

Table 79: IS-IS product support

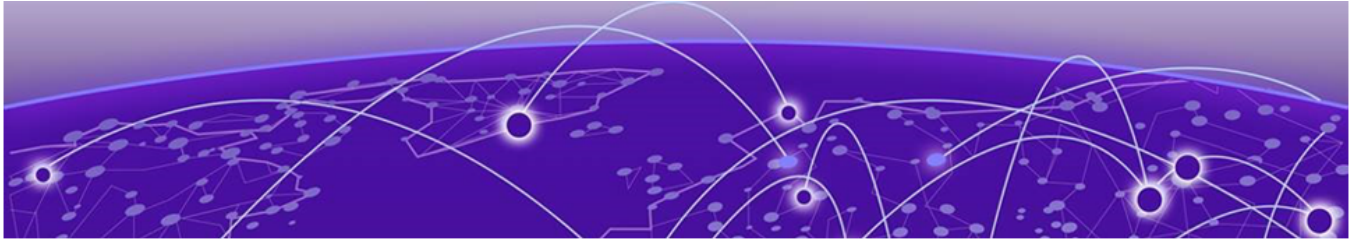
Feature	Product	Release introduced
IS-IS authentication with SHA-256	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 79: IS-IS product support (continued)

Feature	Product	Release introduced
Suspend duplicate system ID detection	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 80: IS-IS Hello Padding

Feature	Product	Release introduced
IS-IS hello padding (ability to disable)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4.2
	5520 Series	VOSS 8.2.7
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.2.7
	VSP 7400 Series	VOSS 8.2.7



Features J to L

Table 81: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 82: Layer 2 Video Surveillance install script product support

Feature	Product	Release introduced
Layer 2 Video Surveillance install script	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	7520 Series	Not Supported
	7720 Series	Not Supported
	VSP 4900 Series	VOSS 8.1 To support this feature, VIM installation is mandatory in VSP4900-48P.
	VSP 7400 Series	Not Supported

Table 83: Layer 2 VSN product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 83: Layer 2 VSN product support (continued)

Feature	Product	Release introduced
Equal Cost Trees (ECT)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 83: Layer 2 VSN product support (continued)

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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 84: Layer 3 Video Surveillance install script product support

Feature	Product	Release introduced
Layer 3 Video Surveillance install script (formerly known as the run vms endura script)	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	7520 Series	Not Supported
	7720 Series	Not Supported
	VSP 4900 Series	VOSS 8.1 To support this feature, VIM installation is mandatory in VSP4900-48P.
	VSP 7400 Series	Not Supported

Table 85: Layer 3 VSN product support

Feature	Product	Release introduced
Layer 3 VSN	5320 Series	Fabric Engine 8.6 **Note:** Only 5320-48P-8XE and 5320-48T-8XE support

Table 85: Layer 3 VSN product support (continued)

Feature	Product	Release introduced
		more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 86: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Applicable
	VSP 7400 Series	Not Applicable
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 86: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.4
	VSP 7400 Series	VOSS 8.4

Table 87: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.4.2
	VSP 7400 Series	VOSS 8.4.2

Table 88: Link Layer Discovery Protocol product support

Feature	Product	Release introduced
Industry Standard Discovery Protocol (ISDP) (CDP compatible)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 88: Link Layer Discovery Protocol product support (continued)

Feature	Product	Release introduced
Link Layer Discovery Protocol (LLDP)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Link Layer Discovery Protocol-Media Endpoint Discovery (LLDP-MED)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 89: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 90: Linux kernel version product support

Feature	Product	Release introduced
	5420 Series	5.4 as of Fabric Engine 8.6

Table 90: Linux kernel version product support (continued)

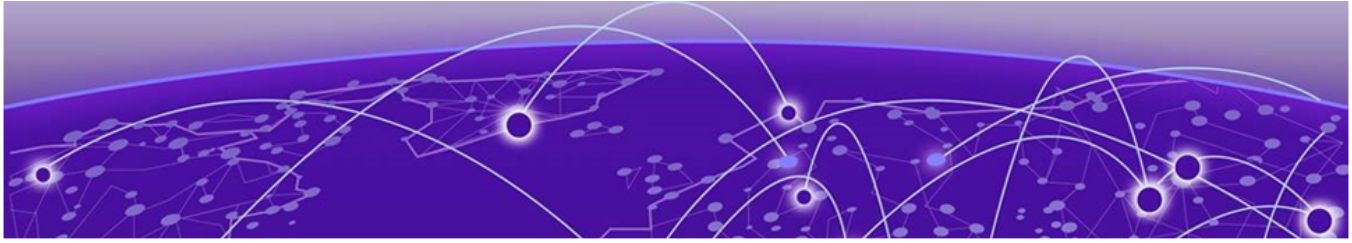
Feature	Product	Release introduced
Linux kernel version	5520 Series	5.4 as of Fabric Engine 8.6
	5720 Series	5.4 as of Fabric Engine 8.7
	7520 Series	5.4 as of Fabric Engine 8.10
	7720 Series	5.4 as of Fabric Engine 8.10
	VSP 4900 Series	5.4 as of VOSS 8.6
	VSP 7400 Series	5.4 as of VOSS 8.6

Table 91: Logs and traps product support

Feature	Product	Release introduced
Logging to a file and syslog (IPv4)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Simple Mail Transfer Protocol (SMTP) for log notification	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 91: Logs and traps product support (continued)

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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
TLS client for secure syslog	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0



Features M to O

Table 92: MACsec product support

Feature	Product	Release introduced
MACsec 2AN mode (static)	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	7520 Series	Fabric Engine 9.0 7520-48YE-8CE only, for MKA
	7720 Series	Not Supported
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	Not Supported

Table 92: MACsec product support (continued)

Feature	Product	Release introduced
MACsec 4AN mode (static)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.2.5 • 5520-24T and 5520-24W - all fixed ports except 1/25 and 1/26 • 5520-12MW-36W, 5520-48SE, 5520-48T, and 5520-48W - all fixed ports except 1/49 and 1/50 • VIMs: 5520-VIM-4XE and 5520-VIM-4YE only
	5720 Series	Fabric Engine 8.7 • 5720-24MW and 5720-24MXW - all fixed ports except 1/25 and 1/26 • 5720-48MW and 5720-48MXW - all fixed ports except 1/49 and 1/50 • VIMs: 5720-VIM-2CE and 5720-VIM-6YE
	7520 Series	Fabric Engine 9.0 7520-48YE-8CE only
	7720 Series	Not Supported
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	Not Supported

Table 92: MACsec product support (continued)

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	VOSS 8.2.5 • 5520-24T and 5520-24W - all fixed ports except 1/25 and 1/26 • 5520-12MW-36W, 5520-48SE, 5520-48T, and 5520-48W - all fixed ports except 1/49 and 1/50 • VIMs: 5520-VIM-4XE and 5520-VIM-4YE only
	5720 Series	Fabric Engine 8.7 • 5720-24MW and 5720-24MXW - all fixed ports except 1/25 and 1/26 • 5720-48MW and 5720-48MXW - all fixed ports except 1/49 and 1/50 • VIMs: 5720-VIM-2CE and 5720-VIM-6YE
	7520 Series	9.0 7520-48YE-8CE only Both 128 bits and 256 bits
	7720 Series	Not Supported
	VSP 4900 Series	VOSS 8.1 • VSP4900-48P supports 128-bit on all fixed ports. • VSP4900-24XE supports 128-bit and 256-bit on all fixed ports. • VSP4900-12MXU-12XE supports 128-bit and 256-bit on the SFP+ ports. • VIM5-4XE and VIM5-4YE supports 128-bit and 256-bit cipher suite.
	VSP 7400 Series	Not Supported

Table 92: MACsec product support (continued)

Feature	Product	Release introduced
Automatic QoS priority for MACsec packets on intermediate switches	5320 Series	Fabric Engine 8.9
	5420 Series	Fabric Engine 8.9
	5520 Series	Fabric Engine 8.9
	5720 Series	Fabric Engine 8.9
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.9
	VSP 7400 Series	VOSS 8.9
MACsec Key Agreement (MKA)	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	VOSS 8.5 • 5520-24T and 5520-24W • 5520-12MW-36W, 5520-48SE, 5520-48T, and 5520-48W • VIMs: 5520-VIM-4XE and 5520-VIM-4YE only
	5720 Series	Fabric Engine 8.7 • 5720-24MW and 5720-24MXW - all fixed ports except 1/25 and 1/26 • 5720-48MW and 5720-48MXW - all fixed ports except 1/49 and 1/50 • VIMs: 5720-VIM-2CE and 5720-VIM-6YE
	7520 Series	9.0 7520-48YE-8CE only
	7720 Series	Not Supported
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	Not Supported

Table 93: Mroute statistics product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 93: Mroute statistics product support (continued)

Feature	Product	Release introduced
Multicast route (mroute) statistics for IPv4 and IPv6	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 94: MSTP-Fabric Connect Multi Homing product support

Feature	Product	Release introduced
MSTP-Fabric Connect Multi Homing	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 95: Multi-area SPB

Feature	Product	Release introduced
Multi-area SPB Boundary Node	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Fabric Engine 8.10
	5720 Series	Fabric Engine 8.10
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Supported
	VSP 7400 Series	VOSS 8.4

Table 95: Multi-area SPB (continued)

Feature	Product	Release introduced
Static data I-SID redistribution for Multi-area SPB Boundary Node	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Fabric Engine 8.10
	5720 Series	Fabric Engine 8.10
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Supported
	VSP 7400 Series	VOSS 8.8

Table 96: Multicast Listener Discovery product support

Feature	Product	Release introduced
Multicast Listener Discovery (MLD)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 97: MultiLink Trunking product support

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

Table 97: MultiLink Trunking product support (continued)

Feature	Product	Release introduced
MultiLink Trunking (MLT) / Link Aggregation Group (LAG)	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 98: Multiple CLI Users product support

Feature	Product	Release introduced
Multiple CLI users per role	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 99: Network Load Balancing product support

Feature	Product	Release introduced
Network Load Balancing (NLB) - multicast operation	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 99: Network Load Balancing product support (continued)

Feature	Product	Release introduced
Network Load Balancing (NLB) - unicast operation	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 100: 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
	7720 Series	Fabric Engine 8.10
	7520 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Applicable
	VSP 7400 Series	Not Applicable

Table 101: Network Time Protocol product support

Feature	Product	Release introduced
NTPv4 client 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 101: Network Time Protocol product support (continued)

Feature	Product	Release introduced
NTPv4 client 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
NTPv4 master and restrict	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
NTP Authentication Key Obfuscation	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8

Table 101: Network Time Protocol product support (continued)

Feature	Product	Release introduced
NTP Server configuration using fully qualified domain name (FQDN)	5320 Series	Fabric Engine 8.10
	5420 Series	Fabric Engine 8.10
	5520 Series	Fabric Engine 8.10
	5720 Series	Fabric Engine 8.10
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.10
	VSP 7400 Series	VOSS 8.10

Table 102: nni-mstp boot flag product support

Feature	Product	Release introduced
nni-mstp boot flag (**`boot config flags nni-mstp`**)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 103: OSPF product support

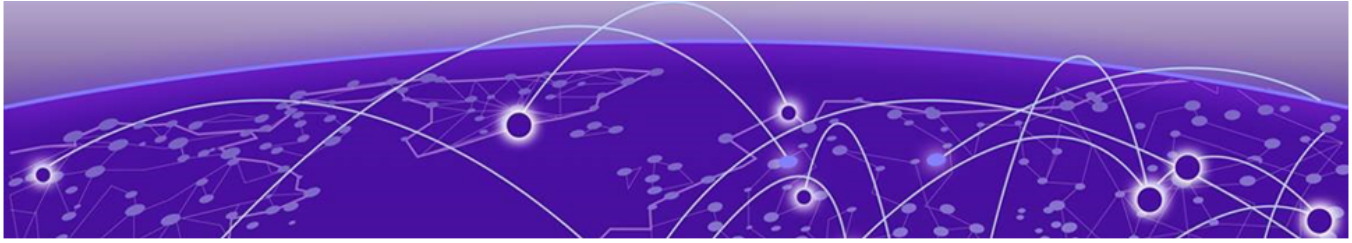
Feature	Product	Release introduced
Open Shortest Path First (OSPF)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 103: OSPF product support (continued)

Feature	Product	Release introduced
Secure hash algorithm 1 (SHA-1) and SHA-2	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 104: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
OSPFv3 support for CLIP interfaces	5320 Series	Fabric Engine 8.10.1
	5420 Series	Fabric Engine 8.10.1
	5520 Series	Fabric Engine 8.10.1
	5720 Series	Fabric Engine 8.10.1
	7520 Series	Fabric Engine 8.10.1
	7720 Series	Fabric Engine 8.10.1
	VSP 4900 Series	VOSS 8.10.1
	VSP 7400 Series	VOSS 8.10.1



Features P to R

Table 105: Password Hash

Feature	Product	Release introduced
SHA512 Password Hashing Note: When upgrading, SHA1 password hashes and custom users are retained, until a factory default reset or until the password hash level is changed. During a factory default reset,SHA2 512-bit becomes the default password hash, all custom users are deleted, and SHA1 passwords are removed.	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8

Table 106: PIM over IPv6 product support

Feature	Product	Release introduced
PIM over IPv6	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 107: Port-Based Rate Limiting, Policing, and Shaping product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 107: Port-Based Rate Limiting, Policing, and Shaping product support (continued)

Feature	Product	Release introduced
Egress port shaper	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Ingress policer and port rate limiter	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5
QoS ingress port-based rate limiter	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	7520 Series	Not Supported
	7720 Series	Not Supported
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	Not Supported

Table 108: Port Mirroring product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 108: Port Mirroring product support (continued)

Feature	Product	Release introduced
Ingress mirroring (port and flow-based)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 109: 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 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-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

Table 109: Power over Ethernet product support (continued)

Feature	Product	Release introduced
		5720-24MW, 5720-48MW, 5720-24MXW, and 5720-48MXW
	7520 Series	Not Applicable
	7720 Series	Not Applicable
	VSP 4900 Series	VOSS 8.1 VSP4900-48P and first 12 ports of VSP4900-12MXU-12XE only
	VSP 7400 Series	Not Applicable
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-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
	7520 Series	Not Applicable
	7720 Series	Not Applicable
	VSP 4900 Series	VOSS 8.1 VSP4900-48P and first 12 ports of VSP4900-12MXU-12XE only
	VSP 7400 Series	Not Applicable

Table 109: 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
	7520 Series	Not Applicable
	7720 Series	Not Applicable
	VSP 4900 Series	VOSS 8.1 VSP4900-48P and first 12 ports of VSP4900-12MXU-12XE only
	VSP 7400 Series	Not Applicable

Table 109: Power over Ethernet product support (continued)

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-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
	7520 Series	Not Applicable
	7720 Series	Not Applicable
	VSP 4900 Series	VOSS 8.1 VSP4900-48P and first 12 ports of VSP4900-12MXU-12XE only.
	VSP 7400 Series	Not Applicable

Table 110: Protocol Independent Multicast-Source Specific Mode product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 110: Protocol Independent Multicast-Source Specific Mode product support (continued)

Feature	Product	Release introduced
PIM-Source Specific Mode (PIM-SSM) for IPv4	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 111: Protocol Independent Multicast - Sparse Mode product support

Feature	Product	Release introduced
Protocol Independent Multicast-Sparse Mode (PIM-SM) 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
PIM Infinite Threshold for IPv4 and IPv6	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5
	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.5
	VSP 7400 Series	VOSS 8.5

Table 112: 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

Table 112: QoS and VoIP product support (continued)

Feature	Product	Release introduced
		Use Auto-sense with IP Phone support instead.
	5520 Series	Not Supported Use Auto-sense with IP Phone support instead.
	5720 Series	Not Supported Use Auto-sense with IP Phone support instead.
	7520 Series	Not Supported Use Auto-sense with IP Phone support instead.
	7720 Series	Not Supported Use Auto-sense with IP Phone support instead.
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 113: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 114: RADIUS product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 114: RADIUS product support (continued)

Feature	Product	Release introduced
RADIUS (IPv6)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
RADIUS, community-based users (IPv4)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
RADIUS Security (RADSec)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.2
	VSP 7400 Series	VOSS 8.2
RFC 5176 – Dynamic Authorization Extensions to RADIUS	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 114: RADIUS product support (continued)

Feature	Product	Release introduced
RFC 5997 – RADIUS Reachability Server Status	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 115: Remote Monitoring product support

Feature	Product	Release introduced
Remote Monitoring 1 (RMON1) for Layer 1 and Layer 2	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Remote Monitoring 2 (RMON2) for network and application layer protocols	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 116: Representational State Transfer Configuration Protocol (RESTCONF) product support

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

Table 116: Representational State Transfer Configuration Protocol (RESTCONF) product support (continued)

Feature	Product	Release introduced
Representational State Transfer Configuration Protocol (RESTCONF)	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 117: RIPng product support

Feature	Product	Release introduced
RIPng	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 118: Routing Information Protocol product support

Feature	Product	Release introduced
Routing Information Protocol (RIP)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 119: RSMLT for IPv4 product support

Feature	Product	Release introduced
	5320 Series	Not Supported

Table 119: RSMLT for IPv4 product support (continued)

Feature	Product	Release introduced
IPv4 RSMLT	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 120: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 121: run spbm installation script product support

Feature	Product	Release introduced
run spbm installation script	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

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Table 122: SD-WAN product support

Feature	Product	Release introduced
Fabric Extend Integration with ExtremeCloud SD-WAN	5320 Series	Fabric Engine 8.10.1
	5420 Series	Fabric Engine 8.10.1
	5520 Series	Fabric Engine 8.10.1
	5720 Series	Fabric Engine 8.10.1
	7520 Series	Fabric Engine 8.10.1
	7720 Series	Fabric Engine 8.10.1
	VSP 4900 Series	VOSS 8.10.1
	VSP 7400 Series	VOSS 8.10.1

Table 123: Secondary IP Interfaces product support

Feature	Product	Release introduced
Secondary IP Interfaces	5320 Series	Fabric Engine 8.10 Only 5320-48P-8XE and 5320-48T-8XE support more than one VRF with IP configuration.
	5420 Series	Fabric Engine 8.10
	5520 Series	Fabric Engine 8.10
	5720 Series	Fabric Engine 8.10
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.10
	VSP 7400 Series	VOSS 8.10

Table 124: Secure Shell product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 124: Secure Shell product support (continued)

Feature	Product	Release introduced
Secure Shell (SSH) server (IPv4)	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Secure Sockets Layer (SSL) certificate management	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 124: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
SSH key sizes in multiples of 1024	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 124: Secure Shell product support (continued)

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 125: Segmented Management Instance product support

Feature	Product	Release introduced
Segmented Management Instance - Management Interface CLIP	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Segmented Management Instance - Management Interface OOB	5320 Series	Not Applicable
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.2
	VSP 7400 Series	VOSS 8.2

Table 125: Segmented Management Instance product support (continued)

Feature	Product	Release introduced
Segmented Management Instance - Management Interface VLAN	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
Segmented Management Instance — ability to migrate VLAN or loopback IP address	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.2
	VSP 7400 Series	VOSS 8.2
Segmented Management Instance — DHCP Client for Management Interface OOB or Management Interface VLAN	5320 Series	Fabric Engine 8.6 OOB not supported
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.2
	VSP 7400 Series	VOSS 8.2

Table 125: Segmented Management Instance product support (continued)

Feature	Product	Release introduced
Segmented Management Instance — sflow, Application Telemetry, and IPFIX	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8

Table 126: sFlow product support

Feature	Product	Release introduced
sFlow	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
sFlow — using Segmented Management Instance OOB interface as source IP	5320 Series	Not Supported
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.25
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8

Table 126: sFlow product support (continued)

Feature	Product	Release introduced
sFlow — using Segmented Management Instance VLAN interface as source IP	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8
sFlow — using Segmented Management Instance CLIP interface (GRT and VRFs) as source IP	5320 Series	Fabric Engine 8.8
	5420 Series	Fabric Engine 8.8
	5520 Series	Fabric Engine 8.8
	5720 Series	Fabric Engine 8.8
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.8
	VSP 7400 Series	VOSS 8.8

Table 127: Simple Loop Prevention Protocol product support

Feature	Product	Release introduced
Simple Loop Prevention Protocol (SLPP)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 128: Simple Network Management Protocol product support

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

Table 128: Simple Network Management Protocol product support (continued)

Feature	Product	Release introduced
Simple Network Management Protocol (SNMP) v1/2/3 (IPv4)	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 129: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 130: SONMP product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 130: SONMP product support (continued)

Feature	Product	Release introduced
SONMP	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 131: Spanning Tree Protocol product support

Feature	Product	Release introduced
Spanning Tree Protocol (STP): • Multiple STP (MSTP) • Rapid STP (RSTP)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 132: spbm-config-mode product support

Feature	Product	Release introduced
spbm-config-mode (**`boot config flags spbm-config-mode`**)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 133: SPB-PIM Gateway product support

Feature	Product	Release introduced
	5320 Series	Not Supported

Table 133: SPB-PIM Gateway product support (continued)

Feature	Product	Release introduced
SPB-PIM Gateway controller node	5420 Series	Not Supported
	5520 Series	VOSS 8.2.5
	5720 Series	Not Supported
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1.5 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only
	VSP 7400 Series	VOSS 8.0
SPB-PIM Gateway interface	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	VOSS 8.2.5
	5720 Series	Not Supported
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 134: 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

Table 134: Static routing product support (continued)

Feature	Product	Release introduced
		more than one VRF with IP configuration.
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 135: TACACS+ product support

Feature	Product	Release introduced
TACACS+	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
TACACS+ secure communication using IPSec 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 136: TCP Maximum Segment Size (MSS) Adjustment for Fabric Extend

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.5

Table 136: TCP Maximum Segment Size (MSS) Adjustment for Fabric Extend (continued)

Feature	Product	Release introduced
Ability to adjust the maximum segment size (MSS)	5520 Series	VOSS 8.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3.1
	VSP 7400 Series	VOSS 8.3.1

Table 137: Time Domain Reflectometer product support

Feature	Product	Release introduced
Time Domain Reflectometer	5320 Series	Not Supported
	5420 Series	Fabric Engine 8.10 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-48W-4YE 5420M-24T-4YE 5420M-48T-4YE 5420M-16MW-32P-4YE
	5520 Series	Not Supported
	5720 Series	Not Supported
	7520 Series	Not Supported
	7720 Series	Not Supported
	VSP 4900 Series	Not Supported
	VSP 7400 Series	Not Supported

Table 138: TLS server for secure HTTPS product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 138: TLS server for secure HTTPS product support (continued)

Feature	Product	Release introduced
TLS server for secure HTTPS	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 139: Two-Factor Authentication for SSH product support

Feature	Product	Release introduced
Two-Factor Authentication for SSH	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 140: Unicast Reverse Path Forwarding product support

Feature	Product	Release introduced
Unicast Reverse Path Forwarding (URPF) checking (IPv4)	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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 140: Unicast Reverse Path Forwarding product support (continued)

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Features V to X

Table 141: Virtual Inter-Switch Trunk product support

Feature	Product	Release introduced
Switch cluster (multi-chassis LAG) -Virtual Inter-Switch Trunk (vIST)	5320 Series	Not Supported
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 142: Virtual Link Aggregation Control Protocol (VLACP) product support

Feature	Product	Release introduced
Virtual Link Aggregation Control Protocol (VLACP)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 142: Virtual Link Aggregation Control Protocol (VLACP) product support (continued)

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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.1

Table 143: Virtual Router Redundancy Protocol product support

Feature	Product	Release introduced
Virtual Router Redundancy Protocol (VRRP)	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 144: Virtual Router Redundancy Protocol for IPv6 product support

Feature	Product	Release introduced
	5320 Series	Fabric Engine 8.6

Table 144: Virtual Router Redundancy Protocol for IPv6 product support (continued)

Feature	Product	Release introduced
IPv6 VRRP	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 145: 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, dynamic, and policy) • Local routing • OSPFv2 • RIPv1 and v2 • Route policies • Static routing • VRRP	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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 145: Virtual Routing and Forwarding product support (continued)

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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.1
IPv6 Virtualization for the following features and functions: • IPv6 Interfaces and IPv6 Static Routes in VRFs and Layer 3 VSNs • ECMP and Alternative route • Route redistribution for static and direct routes • VRRPv3 for IPv6 • DHCP Relay • IPv6 Reverse Path Forwarding • ICMP Ping and Traceroute	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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 145: Virtual Routing and Forwarding product support (continued)

Feature	Product	Release introduced
IPv6 Virtualization for the following features and functions: • Open Shortest Path First for IPv6 (OSPFv3) • IPv6 Border Gateway Protocol (IPv6 BGP) • IPv6 route redistribution enhancements	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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0

Table 146: VXLAN Gateway product support

Feature	Product	Release introduced
VXLAN Gateway	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Supported
	VSP 7400 Series	VOSS 8.0
OVSDB protocol support for VXLAN Gateway	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Supported
	VSP 7400 Series	VOSS 8.0

Table 146: VXLAN Gateway product support (continued)

Feature	Product	Release introduced
ECMP support for VXLAN Gateway	5320 Series	Not Supported
	5420 Series	Not Supported
	5520 Series	Not Supported
	5720 Series	Not Supported
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	Not Supported
	VSP 7400 Series	VOSS 8.0

Features Y and Z

Table 147: 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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.2 VIMs: VIM5-4YE, VIM5-4X, VIM5-4XE, and VIM5-2Y only
	VSP 7400 Series	VOSS 8.2

Table 148: Zero Touch Fabric Configuration product support

Feature	Product	Release introduced
Zero Touch Fabric Configuration	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.1
	VSP 7400 Series	VOSS 8.0.5

Table 148: Zero Touch Fabric Configuration product support (continued)

Feature	Product	Release introduced
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
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.3
	VSP 7400 Series	VOSS 8.3

Table 149: Zero Touch Provisioning Plus product support

Feature	Product	Release introduced
Zero Touch Provisioning Plus	5320 Series	Fabric Engine 8.6
	5420 Series	VOSS 8.4
	5520 Series	VOSS 8.2.5
	5720 Series	Fabric Engine 8.7
	7520 Series	Fabric Engine 8.10
	7720 Series	Fabric Engine 8.10
	VSP 4900 Series	VOSS 8.2.5
	VSP 7400 Series	VOSS 8.2.5