



VOSS Feature Support Matrix

For VOSS Release 8.7

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About this Document

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

Purpose

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

- ExtremeSwitching VSP 4450 Series
- ExtremeSwitching VSP 4900 Series
- ExtremeSwitching VSP 7200 Series
- ExtremeSwitching VSP 7400 Series
- ExtremeSwitching VSP 8200 Series
- ExtremeSwitching VSP 8400 Series
- ExtremeSwitching VSP 8600 Series
- ExtremeSwitching XA1400 Series



Note

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

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

**Note**

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

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

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

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

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

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).

**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.

For information about feature support on Fabric Engine products, see [Fabric Engine Feature Support Matrix](#).

Documentation and Training

Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

[Hardware and software compatibility](#) for Extreme Networks products

[Extreme Optics Compatibility](#)

[Other resources](#) such as white papers, data sheets, and case studies

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

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 2826. For the support phone number in your country, visit: www.extremenetworks.com/support/contact

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

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

Subscribe to Product Announcements

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

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

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

Send Feedback

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

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

To send feedback, do either of the following:

- Access the feedback form at <https://www.extremenetworks.com/documentation-feedback/>.
- Email us at documentation@extremenetworks.com.

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



VOSS Features A to C

Table 1: Access Control Entry product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| QoS Access Control Entries (ACE) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | VOSS 8.0.50 |
| Security ACEs | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| IPv4 ACL filter enhancement - Apply ACE with both Security and QoS actions | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | Not Supported |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.7 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 1: Access Control Entry product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|------------------------------------|
| Filter enhancement - Apply ACE to Routed Packets only | VSP 4450 Series | VOSS 8.4 |
| | VSP 4900 Series | VOSS 8.4 |
| | VSP 7200 Series | VOSS 8.4 |
| | VSP 7400 Series | VOSS 8.4 |
| | VSP 8200 Series | VOSS 8.4 |
| | VSP 8400 Series | VOSS 8.4 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| Policy Based Routing (redirect-next-hop) | VSP 4450 Series | VSP 4450 3.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| Policy Based Routing (redirect-next-hop) with VRF support | VSP 4450 Series | VOSS 6.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1 |
| | VSP 8400 Series | VOSS 6.1 |
| | VSP 8600 Series | VSP 8600 8.0 demonstration feature |
| | XA1400 Series | Not Supported |

Table 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 | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |

Table 2: Access Control List product support (continued)

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

Table 2: Access Control List product support (continued)

| Feature | Product | Release introduced |
|-------------------------|-----------------|-------------------------------------|
| IPv6 ACL DSCP Remarking | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.5 |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.5 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | VOSS 8.5 Switch model: VSP 8404C |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 3: Address Resolution Protocol product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Address Resolution Protocol (ARP) including Proxy ARP and Static ARP | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| Gratuitous ARP filtering | VSP 4450 Series | VOSS 4.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.2 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 4: Advanced Feature Bandwidth Reservation product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Advanced Feature Bandwidth Reservation | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | Not Supported |
| Note: | VSP 7200 Series | Not Supported |

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. | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.0.50 XA1480 only- demonstration feature |

Table 5: Alternative routes product support

| Feature | Product | Release introduced |
|-----------------------------|-----------------|--------------------|
| Alternative routes for IPv4 | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| Alternative routes for IPv6 | VSP 4450 Series | VOSS 5.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 6: Application Telemetry product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 7.1 |

Table 6: Application Telemetry product support (continued)

| Feature | Product | Release introduced |
|---------------------------------------|-----------------|--------------------|
| Application Telemetry | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.1 |
| | VSP 8400 Series | VOSS 7.1 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |
| Application Telemetry Host Monitoring | VSP 4450 Series | VOSS 8.0.5 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 8.0.5 |
| | VSP 7400 Series | VOSS 8.0.5 |
| | VSP 8200 Series | VOSS 8.0.5 |
| | VSP 8400 Series | VOSS 8.0.5 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | Not Supported |

Table 7: Authentication for Privileged EXEC Mode product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Authentication for Privileged EXEC CLI Command Mode | VSP 4450 Series | VOSS 8.2 |
| | VSP 4900 Series | VOSS 8.2 |
| | VSP 7200 Series | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.2 |
| | VSP 8200 Series | VOSS 8.2 |
| | VSP 8400 Series | VOSS 8.2 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | VOSS 8.2 |

Table 8: Auto-Negotiation product support

| Feature | Product | Release introduced |
|------------------|-----------------|---|
| Auto-Negotiation | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 Switch models: <ul style="list-style-type: none"> VSP4900-24S and VSP4900-48P - all fixed ports |

Table 8: Auto-Negotiation product support (continued)

| Feature | Product | Release introduced |
|---------|-----------------|--|
| | | <ul style="list-style-type: none"> 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 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 9: Auto-sense product support

| Feature | Product | Release introduced |
|------------|-----------------|--------------------|
| Auto-sense | VSP 4450 Series | VOSS 8.3 |
| | VSP 4900 Series | VOSS 8.3 |
| | VSP 7200 Series | VOSS 8.3 |
| | VSP 7400 Series | VOSS 8.3 |
| | VSP 8200 Series | VOSS 8.3 |
| | VSP 8400 Series | VOSS 8.3 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 9: Auto-sense product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Auto-sense ports can apply Fabric Attach (FA)-specific configuration | VSP 4450 Series | VOSS 8.4.2 |
| | VSP 4900 Series | VOSS 8.4.2 |
| | VSP 7200 Series | VOSS 8.4.2 |
| | VSP 7400 Series | VOSS 8.4.2 |
| | VSP 8200 Series | VOSS 8.4.2 |
| | VSP 8400 Series | VOSS 8.4.2 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 10: Bidirectional Forwarding Detection (BFD) product support

| Feature | Product | Release introduced |
|------------|-----------------|--------------------------------|
| BFD (IPv4) | VSP 4450 Series | VOSS 8.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 8.1 |
| | VSP 7400 Series | VOSS 8.1 |
| | VSP 8200 Series | VOSS 8.1 |
| | VSP 8400 Series | VOSS 8.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| BFD (IPv6) | VSP 4450 Series | VOSS 8.1 demonstration feature |
| | VSP 4900 Series | VOSS 8.1 demonstration feature |
| | VSP 7200 Series | VOSS 8.1 demonstration feature |
| | VSP 7400 Series | VOSS 8.1 demonstration feature |
| | VSP 8200 Series | VOSS 8.1 demonstration feature |
| | VSP 8400 Series | VOSS 8.1 demonstration feature |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

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

| Feature | Product | Release introduced |
|---------------------------------------|-----------------|--------------------|
| BFD over Fabric Extend Tunnels (IPv4) | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.2 |
| | VSP 7200 Series | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.2 |
| | VSP 8200 Series | VOSS 8.2 |
| | VSP 8400 Series | VOSS 8.2 |
| | VSP 8600 Series | Not supported |
| | XA1400 Series | VOSS 8.2 |

Table 11: Border Gateway Protocol product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Border Gateway Protocol for IPv4 (BGPv4) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| BGP+ (BGPv4 for IPv6). | VSP 4450 Series | VOSS 5.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.0 |
| | VSP 8400 Series | VOSS 5.0 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 11: Border Gateway Protocol product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| BGPv6 | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | Not Supported |
| External BGP (eBGP) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| Internal BPG (iBGP) | VSP 4450 Series | VOSS 4.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.2 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| Route metric for BGP route redistribution | VSP 4450 Series | VOSS 6.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1 |
| | VSP 8400 Series | VOSS 6.1 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | VOSS 8.0.50 |

Table 11: Border Gateway Protocol product support (continued)

| Feature | Product | Release introduced |
|-----------------------------|-----------------|--------------------------------------|
| iBGP over user-created VRFs | VSP 4450 Series | VOSS 8.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 8.1 |
| | VSP 7400 Series | VOSS 8.1 |
| | VSP 8200 Series | VOSS 8.1 |
| | VSP 8400 Series | VOSS 8.1 |
| | VSP 8600 Series | VSP 8600 8.0 - demonstration feature |
| | XA1400 Series | Not Supported |

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

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Bridge Protocol Data Unit (BPDU) Guard | VSP 4450 Series | VOSS 6.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 13: Certificate order priority product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Certificate order priority Note: | VSP 4450 Series | VOSS 5.1.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1.2 |
| | VSP 7400 Series | VOSS 8.0 |

Table 13: Certificate order priority product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| VOSS Releases 6.0 and 6.0.1 do not support this feature. | VSP 8200 Series | VOSS 5.1.2 |
| | VSP 8400 Series | VOSS 5.1.2 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.0.50 |

Table 14: Channelization product support

| Feature | Product | Release introduced |
|----------------------------------|-----------------|-----------------------------|
| Channelization of 40 Gbps ports | VSP 4450 Series | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 VSP 7432CQ only |
| | VSP 8200 Series | VOSS 4.2 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | Not Applicable |
| Channelization of 100 Gbps ports | VSP 4450 Series | Not Applicable |
| | VSP 4900 Series | Not Applicable |
| | VSP 7200 Series | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 VSP 7432CQ only |
| | VSP 8200 Series | Not Applicable |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Applicable |

Table 15: Client and Server product support

| Feature | Product | Release introduced | Release deprecated |
|---------|-----------------|--------------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |

Table 15: Client and Server product support (continued)

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

Table 15: Client and Server product support (continued)

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

Table 15: Client and Server product support (continued)

| Feature | Product | Release introduced | Release deprecated |
|---|-----------------|--------------------|--------------------|
| Secure Copy (SCP) Note: The switch does not support the WinSCP client. | VSP 4450 Series | VSP 4000 4.0 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 5.0 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VSP 8200 4.0 | Not Applicable |
| | VSP 8400 Series | VOSS 5.0 | Not Applicable |
| | VSP 8600 Series | VSP 8600 4.5 | Not Applicable |
| | XA1400 Series | VOSS 8.0.50 | Not Applicable |
| Secure File Transfer Protocol (SFTP) server (IPv4) | VSP 4450 Series | VOSS 4.2 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 4.2.1 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VOSS 4.2 | Not Applicable |
| | VSP 8400 Series | VOSS 4.2 | Not Applicable |
| | VSP 8600 Series | VSP 8600 4.5 | Not Applicable |
| | XA1400 Series | VOSS 8.0.50 | Not Applicable |
| Secure File Transfer Protocol (SFTP) server (IPv6) | VSP 4450 Series | VOSS 4.2 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 4.2.1 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VOSS 4.2 | Not Applicable |
| | VSP 8400 Series | VOSS 4.2 | Not Applicable |
| | VSP 8600 Series | VSP 8600 6.2 | Not Applicable |
| | XA1400 Series | Not Supported | Not Applicable |
| Telnet server and client (IPv4) | VSP 4450 Series | VSP 4000 4.0 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 4.2.1 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VSP 8200 4.0 | Not Applicable |
| | VSP 8400 Series | VOSS 4.2 | Not Applicable |
| | VSP 8600 Series | VSP 8600 4.5 | Not Applicable |
| | XA1400 Series | VOSS 8.0.50 | Not Applicable |

Table 15: Client and Server product support (continued)

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

Table 15: Client and Server product support (continued)

| Feature | Product | Release introduced | Release deprecated |
|--------------------|-----------------|--------------------|--------------------|
| TFTP client (IPv6) | VSP 4450 Series | VOSS 7.0 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 7.0 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VOSS 7.0 | Not Applicable |
| | VSP 8400 Series | VOSS 7.0 | Not Applicable |
| | VSP 8600 Series | VSP 8600 8.0 | Not Applicable |
| | XA1400 Series | Not Supported | Not Applicable |

Table 16: Command Line Interface product support

| Feature | Product | Release introduced |
|------------------------------|-----------------|--------------------|
| Command Line Interface (CLI) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 4200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 17: Connectivity Fault Management product support

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

Table 17: Connectivity Fault Management product support (continued)

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

Table 18: Custom Logon Banner product support

| Feature | Product | Release introduced |
|---------------------|-----------------|--|
| Custom logon banner | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 Note: Configurable using CLI only. |
| | XA1400 Series | VOSS 8.0.50 |



VOSS Features D to F

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

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Directed Broadcast | VSP 4450 Series | VOSS 5.1.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1.1 |
| | VSP 8400 Series | VOSS 5.1.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| High Secure mode (hsecure boot configuration flag) | VSP 4450 Series | VSP 4450 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 20: DHCPv6 Guard product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 5.0 |

Table 20: DHCPv6 Guard product support (continued)

| Feature | Product | Release introduced |
|--------------|-----------------|--------------------|
| DHCPv6 Guard | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.0 |
| | VSP 8400 Series | VOSS 5.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 21: Differentiated Services product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Differentiated Services (DiffServ) including Per-Hop Behavior | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 22: Digital Certificate/PKI product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Digital Certificate/PKI Note: VOSS Releases 6.0 and 6.0.1 do not support this feature. | VSP 4450 Series | VOSS 5.1.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1.2 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1.2 |
| | VSP 8400 Series | VOSS 5.1.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| XA1400 Series | VOSS 8.0.50 | |

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

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Subject alternative name | VSP 4450 Series | VOSS 7.1.3 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.1.3 |
| | VSP 7400 Series | VOSS 8.0.6 |
| | VSP 8200 Series | VOSS 7.1.3 |
| | VSP 8400 Series | VOSS 7.1.3 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.1 |
| Certificate fingerprint validation | VSP 4450 Series | VOSS 8.3 |
| | VSP 4900 Series | VOSS 8.3 |
| | VSP 7200 Series | VOSS 8.3 |
| | VSP 7400 Series | VOSS 8.3 |
| | VSP 8200 Series | VOSS 8.3 |
| | VSP 8400 Series | VOSS 8.3 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.3 |
| Multiple CA Trustpoints and multiple Certificate Identities | VSP 4450 Series | VOSS 8.5 |
| | VSP 4900 Series | VOSS 8.5 |
| | VSP 7200 Series | VOSS 8.5 |
| | VSP 7400 Series | VOSS 8.5 |
| | VSP 8200 Series | VOSS 8.5 |
| | VSP 8400 Series | VOSS 8.5 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.5 |

Table 23: Distributed Virtual Routing Controller product support

| Feature | Product | Release introduced |
|---|-----------------|--|
| DvR Controller | VSP 4450 Series | Not Supported |
| Important: Because of a change in VOSS 6.0.1.2, the best practice is to use | VSP 4900 Series | VOSS 8.1.5 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only |
| | VSP 7200 Series | VOSS 6.0.1 |

Table 23: Distributed Virtual Routing Controller product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| a minimum software version of 6.0.1.2 in DvR deployments. | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0.1 |
| | VSP 8400 Series | VOSS 6.0.1 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | Not Supported |
| dvr-one-ip | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.3 |
| | VSP 7200 Series | VOSS 8.3 |
| | VSP 7400 Series | VOSS 8.3 |
| | VSP 8200 Series | VOSS 8.3 |
| | VSP 8400 Series | VOSS 8.3 |
| | VSP 8600 Series | VSP 8600 8.0 |
| DvR In-band Management | XA1400 Series | Not Supported |
| | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0.1 |
| | VSP 8400 Series | VOSS 6.0.1 |
| | VSP 8600 Series | Not supported |
| XA1400 Series | Not Supported | |

Table 24: Distributed Virtual Routing Leaf product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| DvR Leaf Important: Because of a change in VOSS 6.0.1.2, the best practice is to use a minimum software version of 6.0.1.2 in DvR deployments. | VSP 4450 Series | VOSS 6.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0.1 |
| | VSP 8400 Series | VOSS 6.0.1 |
| | VSP 8600 Series | Not supported |
| | XA1400 Series | Not Supported |

Table 24: Distributed Virtual Routing Leaf product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| DvR In-band Management | VSP 4450 Series | VOSS 6.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0.1 |
| | VSP 8400 Series | VOSS 6.0.1 |
| | VSP 8600 Series | Not supported |
| | XA1400 Series | Not Supported |
| Management I-SID Assignment to DvR Leaf | VSP 4450 Series | VOSS 8.5 |
| | VSP 4900 Series | VOSS 8.5 |
| | VSP 7200 Series | VOSS 8.5 |
| | VSP 7400 Series | VOSS 8.5 |
| | VSP 8200 Series | VOSS 8.5 |
| | VSP 8400 Series | VOSS 8.5 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 25: Domain Name Service product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Domain Name Service (DNS) client (IPv4) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 25: Domain Name Service product support (continued)

| Feature | Product | Release introduced |
|-------------------|-----------------|--------------------|
| DNS client (IPv6) | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 26: Dynamic ARP Inspection (DAI) product support

| Feature | Product | Release introduced |
|------------------------------|-----------------|--------------------|
| Dynamic ARP Inspection (DAI) | VSP 4450 Series | VOSS 6.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1 |
| | VSP 8400 Series | VOSS 6.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 27: Dynamic Host Configuration Protocol product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Dynamic Host Configuration Protocol (DHCP) Relay | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 27: Dynamic Host Configuration Protocol product support (continued)

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

Table 28: Dynamic Host Configuration Protocol Relay for IPv6 product support

| Feature | Product | Release introduced |
|-----------------|-----------------|--------------------|
| IPv6 DHCP Relay | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 29: Dynamic Host Configuration Protocol Snooping and Neighbor Discovery Inspection product support

| Feature | Product | Release introduced |
|---------------------|-----------------|--------------------|
| DHCP Snooping(IPv4) | VSP 4450 Series | VOSS 6.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1 |
| | VSP 8400 Series | VOSS 6.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.0.50 |

Table 29: Dynamic Host Configuration Protocol Snooping and Neighbor Discovery Inspection product support (continued)

| Feature | Product | Release introduced |
|--------------------------------------|-----------------|--------------------|
| DHCP Snooping (IPv6) | VSP 4450 Series | VOSS 5.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| Neighbor Discovery Inspection (IPv6) | VSP 4450 Series | VOSS 5.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 30: Dynamic Nickname Assignment product support

| Feature | Product | Release introduced |
|-----------------------------|-----------------|--------------------|
| Dynamic Nickname Assignment | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0.5 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 30: Dynamic Nickname Assignment product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Extends the assignment behavior with a <i>prefix</i> parameter | VSP 4450 Series | VOSS 8.3 |
| | VSP 4900 Series | VOSS 8.3 |
| | VSP 7200 Series | VOSS 8.3 |
| | VSP 7400 Series | VOSS 8.3 |
| | VSP 8200 Series | VOSS 8.3 |
| | VSP 8400 Series | VOSS 8.3 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 31: Egress Tunnel Shaping product support

| Feature | Product | Release introduced |
|---|-----------------|---|
| Egress Tunnel Shaping | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | Not Supported |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.1 |
| Egress Shaper for Fabric Extend tunnels on Fabric IPsec Gateway virtual machine | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.3.1 VSP4900-12MXU-12XE and VSP4900-24XE only |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.3.1 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 32: Endpoint Tracking product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | Not Supported |

Table 32: Endpoint Tracking product support (continued)

| Feature | Product | Release introduced |
|-------------------|-----------------|--------------------|
| Endpoint Tracking | VSP 4900 Series | VOSS 8.7 |
| | VSP 7200 Series | VOSS 8.1.1 |
| | VSP 7400 Series | VOSS 8.1.1 |
| | VSP 8200 Series | VOSS 8.1.1 |
| | VSP 8400 Series | VOSS 8.1.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 33: Energy Efficient Ethernet product support

| Feature | Product | Release introduced |
|---------------------------------|-----------------|---|
| Energy Efficient Ethernet (EEE) | VSP 4450 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 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | VOSS 8.1 8424GT ESM only |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 34: Energy Saver product support

| Feature | Product | Release introduced |
|--------------|-----------------|--|
| Energy Saver | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 VSP4900-48P and ports 1/1 to 1/12 on VSP4900-12MXU-12XE only |
| | VSP 7200 Series | VOSS 7.0 |

Table 34: Energy Saver product support (continued)

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | | VSP 7254XTQ only |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 35: Enhanced Secure Mode product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Enhanced Secure mode | VSP 4450 Series | VOSS 4.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.2 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| Enhanced Secure mode for JITC and non-JITC sub-modes. | VSP 4450 Series | VOSS 5.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |

Table 35: Enhanced Secure Mode product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Enhanced Secure mode - sensitive file protection | VSP 4450 Series | VOSS 8.5 |
| | VSP 4900 Series | VOSS 8.5 |
| | VSP 7200 Series | VOSS 8.5 |
| | VSP 7400 Series | VOSS 8.5 |
| | VSP 8200 Series | VOSS 8.5 |
| | VSP 8400 Series | VOSS 8.5 |
| | VSP 8600 Series | Not supported |
| | XA1400 Series | VOSS 8.5 |

Table 36: Enterprise Device Manager product support

| Feature | Product | Release introduced |
|---------------------------------|-----------------|---------------------------|
| Enterprise Device Manager (EDM) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| Read-Only user for EDM | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | VSP 8600 8.0 demo feature |
| | XA1400 Series | VOSS 8.0.50 |

Table 37: Entity MIB product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 6.0 |

Table 37: Entity MIB product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Entity MIB - Physical Table | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |
| Entity MIB enhancements and integration for the following: <ul style="list-style-type: none"> Physical Table Alias Mapping Table Physical Contains Table Last Change Time object | VSP 4450 Series | VOSS 6.1.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1.2 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1.2 |
| | VSP 8400 Series | VOSS 6.1.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| XA1400 Series | VOSS 8.0.50 | |
| Entity MIB - Logical Table includes the following logical interface entities: <ul style="list-style-type: none"> VLANs MLTs Circuitless IP (CLIP) Fabric Extend interfaces (logical layer 2 and layer 3 IS-IS interfaces) | VSP 4450 Series | VOSS 8.4 |
| | VSP 4900 Series | VOSS 8.4 |
| | VSP 7200 Series | VOSS 8.4 |
| | VSP 7400 Series | VOSS 8.4 |
| | VSP 8200 Series | VOSS 8.4 |
| | VSP 8400 Series | VOSS 8.4 |
| | VSP 8600 Series | Not supported |
| XA1400 Series | VOSS 8.4 | |

Table 38: Equal Cost Multiple Path for IPv4 product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 |

Table 38: Equal Cost Multiple Path for IPv4 product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Equal Cost Multiple Path (ECMP) for IPv4 | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 39: Equal Cost Multiple Path for IPv6 product support

| Feature | Product | Release introduced |
|---------------|-----------------|--------------------|
| ECMP for IPv6 | VSP 4450 Series | VOSS 5.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 40: ECMP Pathlist with Fabric Connect product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| ECMP Pathlist with Fabric Connect (IS-IS routes) | VSP 4450 Series | VOSS 8.1.5 |
| | VSP 4900 Series | VOSS 8.1.5 |
| | VSP 7200 Series | VOSS 8.1.5 |
| | VSP 7400 Series | VOSS 8.1.5 |
| | VSP 8200 Series | VOSS 8.1.5 |
| | VSP 8400 Series | VOSS 8.1.5 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.1.5 |

Table 41: E-Tree and Private VLANs product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 |

Table 41: E-Tree and Private VLANs product support (continued)

| Feature | Product | Release introduced |
|--------------------------|-----------------|--------------------|
| E-Tree and private VLANs | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| Routing on Private VLANs | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.5 |
| | VSP 7200 Series | VOSS 8.5 |
| | VSP 7400 Series | VOSS 8.5 |
| | VSP 8200 Series | VOSS 8.5 |
| | VSP 8400 Series | VOSS 8.5 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 42: Extensible Authentication Protocol over LAN product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Extensible Authentication Protocol (EAP) and EAP over LAN (EAPoL) | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| EAPoL MHMA-MV | VSP 4450 Series | VOSS 5.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 42: Extensible Authentication Protocol over LAN product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| EAPoL enhancements: Enhanced MHMV, Fail Open VLAN, Guest VLAN | VSP 4450 Series | VOSS 6.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1 |
| | VSP 8400 Series | VOSS 6.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| EAP enhancements: EAP on Flex UNI ports, Auto-sense ports, auto-isid-offset | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.3 |
| | VSP 7200 Series | VOSS 8.3 |
| | VSP 7400 Series | VOSS 8.3 |
| | VSP 8200 Series | VOSS 8.3 |
| | VSP 8400 Series | VOSS 8.3 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| EAP enhancements: Wake on LAN, Guest I-SID, Fail Open I-SID | VSP 4450 Series | VOSS 8.3 |
| | VSP 4900 Series | VOSS 8.3 |
| | VSP 7200 Series | VOSS 8.3 |
| | VSP 7400 Series | VOSS 8.3 |
| | VSP 8200 Series | VOSS 8.3 |
| | VSP 8400 Series | VOSS 8.3 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| Non EAPoL MAC RADIUS authentication | VSP 4450 Series | VOSS 4.2.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.2.1 |
| | VSP 8400 Series | VOSS 4.2.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 42: Extensible Authentication Protocol over LAN product support (continued)

| Feature | Product | Release introduced |
|---------------------------------------|-----------------|--------------------|
| QoS Priority Assignment | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| RADIUS Dynamic User-Based Policies | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.3 |
| | VSP 7200 Series | VOSS 8.3 |
| | VSP 7400 Series | VOSS 8.3 |
| | VSP 8200 Series | VOSS 8.3 |
| | VSP 8400 Series | VOSS 8.3 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| RADIUS Port and VLAN based Attributes | VSP 4450 Series | VOSS 8.4 |
| | VSP 4900 Series | VOSS 8.4 |
| | VSP 7200 Series | VOSS 8.4 |
| | VSP 7400 Series | VOSS 8.4 |
| | VSP 8200 Series | VOSS 8.4 |
| | VSP 8400 Series | VOSS 8.4 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 42: Extensible Authentication Protocol over LAN product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Continuity Mode for Fail Open VLAN and Fail Open I-SID | VSP 4450 Series | VOSS 8.6 |
| | VSP 4900 Series | VOSS 8.6 |
| | VSP 7200 Series | VOSS 8.6 |
| | VSP 7400 Series | VOSS 8.6 |
| | VSP 8200 Series | VOSS 8.6 |
| | VSP 8400 Series | VOSS 8.6 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 43: Extreme Integrated Application Hosting product support

| Feature | Product | Release introduced |
|--|-----------------|---|
| Extreme Integrated Application Hosting | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.1.5 VSP4900-12MXU-12XE and VSP4900-24XE only |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| Fabric IPsec Gateway virtual machine | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE only |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.2 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 43: Extreme Integrated Application Hosting product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|---|
| Egress Shaper for Fabric Extend tunnels on Fabric IPsec Gateway virtual machine | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.3.1 VSP4900-12MXU-12XE and VSP4900-24XE only |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.3.1 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 44: 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. | VSP 4450 Series | VOSS 6.1.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1.2 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1.2 |
| | VSP 8400 Series | VOSS 6.1.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |

Table 45: Fabric Attach product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 5.0 |

Table 45: Fabric Attach product support (continued)

| Feature | Product | Release introduced |
|----------------------|-----------------|--------------------|
| Fabric Attach Server | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.0 |
| | VSP 8400 Series | VOSS 5.0 |
| | VSP 8600 Series | VSP 8600 6.3 |
| | XA1400 Series | Not Supported |

Table 46: Fabric Attach Zero Touch Client Attachment product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Fabric Attach Zero Touch Client Attachment | VSP 4450 Series | VOSS 6.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | VSP 8600 6.3 |
| | XA1400 Series | Not Supported |

Table 47: Fabric Extend product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Fabric Extend *Platforms require an Open Networking Adapter (ONA). | VSP 4450 Series | VOSS 5.0* |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.0 |
| | VSP 8400 Series | VOSS 5.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.0.50 |

Table 47: Fabric Extend product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--|
| Fabric Extend over IPsec | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.2 using Fabric IPsec Gateway |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.0.50 |
| Digital Certificate Authentication for Fabric Extend over IPsec | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.3 using Fabric IPsec Gateway |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.3 |
| ECMP support for Fabric Extend | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | Not Supported |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.0.50 |

Table 47: Fabric Extend product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--|
| IPsec compression | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.7 VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.7 using Fabric IPsec Gateway |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.1.8 |
| Ability to adjust the maximum segment size (MSS) | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.3.1 |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.3.1 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.1.8 |
| IS-IS hello padding | VSP 4450 Series | VOSS 8.2.7 |
| | VSP 4900 Series | VOSS 8.2.7 |
| | VSP 7200 Series | VOSS 8.2.7 |
| | VSP 7400 Series | VOSS 8.2.7 |
| | VSP 8200 Series | VOSS 8.2.7 |
| | VSP 8400 Series | VOSS 8.2.7 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.2.7 |

Table 47: Fabric Extend product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--|
| IPsec fragmentation before encryption | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.3.1 VSP4900-12MXU-12XE and VSP4900-24XE using Fabric IPsec Gateway |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.3.1 using Fabric IPsec Gateway |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.2.7 |
| Ability to configure a specific IPsec source IP per tunnel | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | Not Supported |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.3.1 |

Table 48: Fabric Mode product support

| Feature | Product | Release introduced |
|-----------------|-----------------|--------------------|
| Fabric BCB mode | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 48: Fabric Mode product support (continued)

| Feature | Product | Release introduced |
|-----------------|-----------------|--------------------|
| Fabric BEB mode | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |

Table 49: Fabric RSPAN product support

| Feature | Product | Release introduced |
|--------------------------------|-----------------|---|
| Fabric RSPAN (Mirror to I-SID) | VSP 4450 Series | VOSS 6.0 Flow-based mirroring into single I-SID only |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 50: FDB Protected by Port product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 |

Table 50: FDB Protected by Port product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| FDB protected by port (MAC security limit-learning) | VSP 4900 Series | VOSS 8.3 |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 51: Flight Recorder product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Flight Recorder for system health monitoring | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 52: Forward Error Correction product support

| Feature | Product | Release introduced |
|---|-----------------|---------------------------------|
| Forward Error Correction (FEC) (configurable) | VSP 4450 Series | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 VIM5-4YE at 25 Gbps |
| | VSP 7200 Series | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | VOSS 8.0 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Applicable |



VOSS Features G to I

Table 53: High-Availability product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| High Availability-CPU (HA-CPU) for a standalone switch | VSP 4450 Series | Not Applicable |
| | VSP 4900 Series | Not Applicable |
| | VSP 7200 Series | Not Applicable |
| | VSP 7400 Series | Not Applicable |
| | VSP 8200 Series | Not Applicable |
| | VSP 8400 Series | Not Applicable |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Applicable |
| High Availability-CPU (HA-CPU) for Layer 2 with Simplified vIST | VSP 4450 Series | Not Applicable |
| | VSP 4900 Series | Not Applicable |
| | VSP 7200 Series | Not Applicable |
| | VSP 7400 Series | Not Applicable |
| | VSP 8200 Series | Not Applicable |
| | VSP 8400 Series | Not Applicable |
| | VSP 8600 Series | VSP 8600 6.3 |
| | XA1400 Series | Not Applicable |

Table 53: High-Availability product support (continued)

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

Table 54: IEEE 802.3X Pause Frame Transmit product support

| Feature | Product | Release introduced |
|----------------------------------|-----------------|--------------------|
| IEEE 802.3X Pause frame transmit | VSP 4450 Series | VOSS 6.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.1.50 |

Table 55: Internet Control Message Protocol product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Internet Control Message Protocol (ICMP) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 55: Internet Control Message Protocol product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| ICMP broadcast and multicast enable or disable | VSP 4450 Series | VOSS 5.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |
| Fragmented ICMP Packet Filtering for IPv4 | VSP 4450 Series | VOSS 8.5 |
| | VSP 4900 Series | VOSS 8.5 |
| | VSP 7200 Series | VOSS 8.5 |
| | VSP 7400 Series | VOSS 8.5 |
| | VSP 8200 Series | VOSS 8.5 |
| | VSP 8400 Series | VOSS 8.5 |
| | VSP 8600 Series | Not supported |
| | XA1400 Series | VOSS 8.5 |
| Fragmented ICMP Packet Filtering for IPv6 | VSP 4450 Series | VOSS 8.5 |
| | VSP 4900 Series | VOSS 8.5 |
| | VSP 7200 Series | VOSS 8.5 |
| | VSP 7400 Series | VOSS 8.5 |
| | VSP 8200 Series | VOSS 8.5 |
| | VSP 8400 Series | VOSS 8.5 |
| | VSP 8600 Series | Not supported |
| | XA1400 Series | Not supported |

Table 56: Internet Group Management Protocol product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |

Table 56: Internet Group Management Protocol product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Internet Group Management Protocol (IGMP), including virtualization | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |

Table 57: Internet Key Exchange product support

| Feature | Product | Release introduced |
|--|-----------------|------------------------------------|
| Internet Key Exchange (IKE) v2 Note: VOSS Releases 6.0 and 6.0.1 do not support this feature. | VSP 4450 Series | VOSS 5.1.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1.2 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1.2 |
| | VSP 8400 Series | VOSS 5.1.2 |
| | VSP 8600 Series | VSP 8600 8.0 demonstration feature |
| | XA1400 Series | VOSS 8.0.50 |

Table 58: Internet Protocol Flow Information eXport (IPFIX) product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Internet Protocol Flow Information eXport (IPFIX) | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | Not Supported |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 59: Inter-VSN Routing product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 |

Table 59: Inter-VSN Routing product support (continued)

| Feature | Product | Release introduced |
|--------------------------|-----------------|--------------------|
| Inter-VSN routing (IPv4) | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |
| Inter-VSN routing (IPv6) | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | Not Supported |

Table 60: IOC Module Preconfiguration

| Feature | Product | Release introduced |
|-----------------------------|-----------------|--------------------|
| IOC Module Preconfiguration | VSP 4450 Series | Not Applicable |
| | VSP 4900 Series | Not Applicable |
| | VSP 7200 Series | Not Applicable |
| | VSP 7400 Series | Not Applicable |
| | VSP 8200 Series | Not Applicable |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | Not Applicable |

Table 61: IP Phone product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 8.3 |

Table 61: IP Phone product support (continued)

| Feature | Product | Release introduced |
|------------------|-----------------|--------------------|
| IP Phone Support | VSP 4900 Series | VOSS 8.3 |
| | VSP 7200 Series | VOSS 8.3 |
| | VSP 7400 Series | VOSS 8.3 |
| | VSP 8200 Series | VOSS 8.3 |
| | VSP 8400 Series | VOSS 8.3 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 62: IP Multicast over Fabric Connect product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| IP Multicast over Fabric Connect | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |
| Universal Plug and Play (uPnP) Filtering | VSP 4450 Series | VOSS 8.3 |
| | VSP 4900 Series | VOSS 8.3 |
| | VSP 7200 Series | VOSS 8.3 |
| | VSP 7400 Series | VOSS 8.3 |
| | VSP 8200 Series | VOSS 8.3 |
| | VSP 8400 Series | VOSS 8.3 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 63: IP Route Policies product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 |

Table 63: IP Route Policies product support (continued)

| Feature | Product | Release introduced |
|-------------------|-----------------|--------------------|
| IP route policies | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 64: IP Shortcuts product support

| Feature | Product | Release introduced |
|------------------------------------|-----------------|--------------------|
| IP Shortcut routing including ECMP | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |
| IPv6 Shortcut routing | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | Not Supported |
| IPv4 IS-IS accept policies | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |

Table 64: IP Shortcuts product support (continued)

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

Table 65: IP Source Guard product support

| Feature | Product | Release introduced |
|------------------------|-----------------|--------------------|
| IP Source Guard (IPv4) | VSP 4450 Series | VOSS 6.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1 |
| | VSP 8400 Series | VOSS 6.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.0.50 |
| IP Source Guard (IPv6) | VSP 4450 Series | VOSS 6.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1 |
| | VSP 8400 Series | VOSS 6.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 66: IP Source Routing product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 5.1 |

Table 66: IP Source Routing product support (continued)

| Feature | Product | Release introduced |
|-------------------------------------|-----------------|--------------------|
| IP Source Routing enable or disable | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |

Table 67: IPsec product support

| Feature | Product | Release introduced | Release deprecated |
|----------------------|-----------------|--------------------|--------------------|
| IPsec NAT-T | VSP 4450 Series | Not Supported | Not Applicable |
| | VSP 4900 Series | Not Supported | Not Applicable |
| | VSP 7200 Series | Not Supported | Not Applicable |
| | VSP 7400 Series | Not Supported | Not Applicable |
| | VSP 8200 Series | Not Supported | Not Applicable |
| | VSP 8400 Series | Not Supported | Not Applicable |
| | VSP 8600 Series | Not Supported | Not Applicable |
| | XA1400 Series | VOSS 8.1.50 | Not Applicable |
| IPsec transport mode | VSP 4450 Series | VOSS 4.2 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 4.2.1 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VOSS 4.2 | Not Applicable |
| | VSP 8400 Series | VOSS 4.2 | Not Applicable |
| | VSP 8600 Series | Not Supported | Not Applicable |
| | XA1400 Series | Not Supported | Not Applicable |
| IPsec tunnel mode | VSP 4450 Series | Not Supported | Not Applicable |
| | VSP 4900 Series | Not Supported | Not Applicable |
| | VSP 7200 Series | Not Supported | Not Applicable |
| | VSP 7400 Series | Not Supported | Not Applicable |
| | VSP 8200 Series | Not Supported | Not Applicable |
| | VSP 8400 Series | Not Supported | Not Applicable |
| | VSP 8600 Series | Not Supported | Not Applicable |
| | XA1400 Series | VOSS 8.0.50 | Not Applicable |

Table 67: IPsec product support (continued)

| Feature | Product | Release introduced | Release deprecated |
|--|-----------------|--|--------------------|
| IPsec for the Out-of-band management port (IPv4) | VSP 4450 Series | VOSS 4.2 | VOSS 8.2 |
| | VSP 4900 Series | VOSS 8.1 | VOSS 8.2 |
| | VSP 7200 Series | VOSS 4.2.1 | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.0 | VOSS 8.2 |
| | VSP 8200 Series | VOSS 4.2 | VOSS 8.2 |
| | VSP 8400 Series | VOSS 4.2 | VOSS 8.2 |
| | VSP 8600 Series | VSP 8600 6.2 | Not Applicable |
| | XA1400 Series | Not Applicable | Not Applicable |
| IPsec for the Out-of-band management port (IPv6) | VSP 4450 Series | VOSS 6.0 | VOSS 8.2 |
| | VSP 4900 Series | VOSS 8.1 | VOSS 8.2 |
| | VSP 7200 Series | VOSS 6.0 | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.0 | VOSS 8.2 |
| | VSP 8200 Series | VOSS 6.0 | VOSS 8.2 |
| | VSP 8400 Series | VOSS 6.0 | VOSS 8.2 |
| | VSP 8600 Series | VSP 8600 6.2 | Not Applicable |
| | XA1400 Series | Not Applicable | Not Applicable |
| Digital Certificates for IPsec Authentication | VSP 4450 Series | Not Supported | Not Applicable |
| | VSP 4900 Series | VOSS 8.3 VSP4900-12MXU-12XE and VSP4900-24XE for Fabric Extend over IPsec | Not Applicable |
| | VSP 7200 Series | Not Supported | Not Applicable |
| | VSP 7400 Series | VOSS 8.3 for Fabric Extend over IPsec | Not Applicable |
| | VSP 8200 Series | Not Supported | Not Applicable |
| | VSP 8400 Series | Not Supported | Not Applicable |
| | VSP 8600 Series | Not Supported | Not Applicable |
| | XA1400 Series | VOSS 8.3 for Fabric Extend over IPsec | Not Applicable |

Table 68: IPv6-in-IPv4 tunnels product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 4.1 |

Table 68: IPv6-in-IPv4 tunnels product support (continued)

| Feature | Product | Release introduced |
|----------------------|-----------------|--------------------|
| IPv6-in-IPv4 tunnels | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 69: IPv6 Router Advertisement (RA) Guard product support

| Feature | Product | Release introduced |
|--------------------------------------|-----------------|--------------------|
| IPv6 Router Advertisement (RA) Guard | VSP 4450 Series | VOSS 5.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.0 |
| | VSP 8400 Series | VOSS 5.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 70: IQ Agent product support

| Feature | Product | Release introduced |
|-----------------------|-----------------|---|
| ExtremeCloud IQ Agent | VSP 4450 Series | Not supported |
| | VSP 4900 Series | VOSS 8.2 <ul style="list-style-type: none"> • VSP4900-48P • VIMs: VIM5-4YE, VIM5-4X, VIM5-4XE, and VIM5-2Y VOSS 8.2.5 <ul style="list-style-type: none"> • VSP4900-24S • VSP4900-24XE |

Table 70: IQ Agent product support (continued)

| Feature | Product | Release introduced |
|---------|-----------------|---|
| | | <ul style="list-style-type: none"> VSP4900-12MXU-12XE VIMs: VIM5-4Y |
| | VSP 7200 Series | Not supported |
| | VSP 7400 Series | VOSS 8.2 |
| | VSP 8200 Series | Not supported |
| | VSP 8400 Series | Not supported |
| | VSP 8600 Series | Not supported |
| | XA1400 Series | VOSS 8.2 |

Table 71: IS-IS product support

| Feature | Product | Release introduced |
|---------------------------------------|-----------------|--------------------|
| IS-IS authentication with SHA-256 | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |
| Suspend duplicate system ID detection | VSP 4450 Series | VOSS 6.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1 |
| | VSP 8400 Series | VOSS 6.1 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |

Table 71: IS-IS product support (continued)

| Feature | Product | Release introduced |
|-------------------------------------|-----------------|--------------------|
| Multiple IS-IS parallel adjacencies | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |



VOSS Features J to L

Table 72: Key Health Indicator product support

| Feature | Product | Release introduced |
|----------------------------|-----------------|--------------------|
| Key Health Indicator (KHI) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 73: Layer 2 Video Surveillance install script product support

| Feature | Product | Release introduced |
|---|-----------------|--|
| Layer 2 Video Surveillance install script | VSP 4450 Series | VOSS 6.1 |
| | VSP 4900 Series | VOSS 8.1 To support this feature, VIM installation is mandatory in VSP4900-48P. |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 74: Layer 2 VSN product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 |

Table 74: Layer 2 VSN product support (continued)

| Feature | Product | Release introduced |
|---------------------------------------|-----------------|--------------------|
| Equal Cost Trees (ECT) | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| Layer 2 Virtual Service Network (VSN) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| Switched UNI | XA1400 Series | VOSS 8.0.50 |
| | VSP 4450 Series | VOSS 5.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.0 |
| | VSP 8400 Series | VOSS 5.0 |
| | VSP 8600 Series | VSP 8600 6.3 |
| XA1400 Series | Not Supported | |

Table 74: Layer 2 VSN product support (continued)

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

Table 75: 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) | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 To support this feature, VIM installation is mandatory in VSP4900-48P. |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 76: Layer 3 VSN product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 |

Table 76: Layer 3 VSN product support (continued)

| Feature | Product | Release introduced |
|-------------|-----------------|--------------------|
| Layer 3 VSN | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |

Table 77: Licensing product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| License files signed using Extreme Networks signature. | VSP 4450 Series | VOSS 6.1.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1.2 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1.2 |
| | VSP 8400 Series | VOSS 6.1.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |
| Subscription-based licenses | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | Not Supported |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.0.50 |

Table 77: Licensing product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Ability to extend the Factory Default Premier Trial License | VSP 4450 Series | VOSS 8.4 |
| | VSP 4900 Series | VOSS 8.4 |
| | VSP 7200 Series | VOSS 8.4 |
| | VSP 7400 Series | VOSS 8.4 |
| | VSP 8200 Series | VOSS 8.4 |
| | VSP 8400 Series | VOSS 8.4 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 78: Link Debounce for WAN Links

| Feature | Product | Release introduced |
|---------------|-----------------|--------------------|
| Link Debounce | VSP 4450 Series | VOSS 8.4.2 |
| | VSP 4900 Series | VOSS 8.4.2 |
| | VSP 7200 Series | VOSS 8.5 |
| | VSP 7400 Series | VOSS 8.4.2 |
| | VSP 8200 Series | VOSS 8.5 |
| | VSP 8400 Series | VOSS 8.5 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 79: Link Layer Discovery Protocol product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Industry Standard Discovery Protocol (ISDP) (CDP compatible) | VSP 4450 Series | VOSS 6.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 79: Link Layer Discovery Protocol product support (continued)

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

Table 80: Link-state tracking (LST) product support

| Feature | Product | Release introduced |
|---------------------------|-----------------|------------------------------------|
| Link-state tracking (LST) | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | VSP 8600 8.0 demonstration feature |
| | XA1400 Series | Not Supported |

Table 81: Linux kernel version product support

| Feature | Product | Release introduced |
|----------------------|-----------------|--------------------|
| Linux kernel version | VSP 4450 Series | 4.9 as of VOSS 7.0 |
| Important: | VSP 4900 Series | 5.4 as of VOSS 8.6 |
| | VSP 7200 Series | 4.9 as of VOSS 7.0 |

Table 81: Linux kernel version product support (continued)

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

Table 82: Logs and traps product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Logging to a file and syslog (IPv4) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| Logging to a file and syslog (IPv6) | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |
| Simple Mail Transfer Protocol (SMTP) for log notification | VSP 4450 Series | VOSS 6.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |

Table 82: Logs and traps product support (continued)

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



VOSS Features M to O

Table 83: MACsec product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------------------|
| MACsec 2AN mode (static) Note: VOSS 5.0 officially removed the replay protection commands. Do not use replay protection in earlier releases. | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.5 |
| | VSP 7200 Series | VOSS 4.2.1 VSP 7254XTQ only |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| MACsec 4AN mode (static) | VSP 4450 Series | VOSS 6.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 VSP 7254XTQ only |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |

Table 83: MACsec product support (continued)

| Feature | Product | Release introduced |
|---------------------------------|-----------------|--|
| MACsec encryption cipher suites | VSP 4450 Series | VOSS 8.1 128 bits only |
| | VSP 4900 Series | VOSS 8.1 <ul style="list-style-type: none"> VSP4900-48P supports 128-bit on all fixed ports. VSP4900-24XE supports 128-bit and 256-bit on all fixed ports. VSP4900-12MXU-12XE supports 128-bit and 256-bit on the SFP+ ports. VIM5-4XE and VIM5-4YE supports 128-bit and 256-bit cipher suite. |
| | VSP 7200 Series | VOSS 8.1 128 bits only |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | VOSS 8.1 128 bits only |
| | VSP 8400 Series | VOSS 8.1 128 bits only |
| | VSP 8600 Series | VSP 8600 6.2 8624XS supports 128 bits only. 8606CQ supports 128 bits and 256 bits. |
| | XA1400 Series | Not Supported |
| MACsec Key Agreement (MKA) | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.5 |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | VOSS 8.1 |
| | VSP 8600 Series | VSP 8600 8.1 |
| | XA1400 Series | Not Supported |

Table 84: Mroute statistics product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | Not Supported |

Table 84: Mroute statistics product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Multicast route (mroute) statistics for IPv4 and IPv6 | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 85: MSTP-Fabric Connect Multi Homing product support

| Feature | Product | Release introduced |
|----------------------------------|-----------------|--------------------|
| MSTP-Fabric Connect Multi Homing | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 86: Multi-area SPB

| Feature | Product | Release introduced |
|------------------------------|-----------------|--------------------|
| Multi-area SPB Boundary Node | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | Not Supported |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.4 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 87: Multicast Listener Discovery product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 5.1 |

Table 87: Multicast Listener Discovery product support (continued)

| Feature | Product | Release introduced |
|------------------------------------|-----------------|--------------------|
| Multicast Listener Discovery (MLD) | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 88: MultiLink Trunking product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| MultiLink Trunking (MLT) / Link Aggregation Group (LAG) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 89: Multiple CLI Users product support

| Feature | Product | Release introduced |
|-----------------------------|-----------------|------------------------------------|
| Multiple CLI users per role | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | VSP 8600 8.0 demonstration feature |
| | XA1400 Series | VOSS 8.0.50 |

Table 90: Network Load Balancing product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | Not Supported |

Table 90: Network Load Balancing product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Network Load Balancing (NLB) - multicast operation | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| Network Load Balancing (NLB) - unicast operation | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |

Table 91: Network operating system personality product support

| Feature | Product | Release introduced |
|-------------------------|-----------------|--------------------|
| Dual-boot personalities | VSP 4450 Series | Not Applicable |
| | VSP 4900 Series | Not Applicable |
| | VSP 7200 Series | Not Applicable |
| | VSP 7400 Series | Not Applicable |
| | VSP 8200 Series | Not Applicable |
| | VSP 8400 Series | Not Applicable |
| | VSP 8600 Series | Not Applicable |
| | XA1400 Series | Not Applicable |

Table 92: Network Time Protocol product support

| Feature | Product | Release introduced | Release deprecated |
|---------|-----------------|--------------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 | VOSS 8.2 |

Table 92: Network Time Protocol product support (continued)

| Feature | Product | Release introduced | Release deprecated |
|-------------------------------|-----------------|--------------------|--------------------|
| NTPv3 client | VSP 4900 Series | VOSS 8.1 | VOSS 8.2 |
| | VSP 7200 Series | VOSS 4.2.1 | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.0 | VOSS 8.2 |
| | VSP 8200 Series | VSP 8200 4.0 | VOSS 8.2 |
| | VSP 8400 Series | VOSS 4.2 | VOSS 8.2 |
| | VSP 8600 Series | VSP 8600 4.5 | Not Applicable |
| | XA1400 Series | VOSS 8.0.50 | VOSS 8.2 |
| NTPv3 with SHA authentication | VSP 4450 Series | VOSS 5.1 | VOSS 8.2 |
| | VSP 4900 Series | VOSS 8.1 | VOSS 8.2 |
| | VSP 7200 Series | VOSS 5.1 | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.0 | VOSS 8.2 |
| | VSP 8200 Series | VOSS 5.1 | VOSS 8.2 |
| | VSP 8400 Series | VOSS 5.1 | VOSS 8.2 |
| | VSP 8600 Series | VSP 8600 4.5 | Not Applicable |
| | XA1400 Series | VOSS 8.0.50 | VOSS 8.2 |
| NTPv4 client for IPv4 | VSP 4450 Series | VOSS 7.0 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 7.0 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VOSS 7.0 | Not Applicable |
| | VSP 8400 Series | VOSS 7.0 | Not Applicable |
| | VSP 8600 Series | VSP 8600 8.0 | Not Applicable |
| | XA1400 Series | Not Supported | Not Applicable |
| NTPv4 client for IPv6 | VSP 4450 Series | VOSS 7.0 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 7.0 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VOSS 7.0 | Not Applicable |
| | VSP 8400 Series | VOSS 7.0 | Not Applicable |
| | VSP 8600 Series | VSP 8600 8.0 | Not Applicable |
| | XA1400 Series | Not Supported | Not Applicable |

Table 92: Network Time Protocol product support (continued)

| Feature | Product | Release introduced | Release deprecated |
|---------------------------|-----------------|------------------------------------|--------------------|
| NTPv4 master and restrict | VSP 4450 Series | VOSS 8.0 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 8.0 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VOSS 8.0 | Not Applicable |
| | VSP 8400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8600 Series | VSP 8600 8.0 demonstration feature | Not Applicable |
| | XA1400 Series | Not Supported | Not Applicable |

Table 93: nni-mstp boot flag product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| nni-mstp boot flag (boot config flags nni-mstp) | VSP 4450 Series | VOSS 6.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 94: OSPF product support

| Feature | Product | Release introduced |
|---------------------------------|-----------------|--------------------|
| Open Shortest Path First (OSPF) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 94: OSPF product support (continued)

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

Table 95: OSPFv3 product support

| Feature | Product | Release introduced |
|------------------------------------|-----------------|--------------------|
| OSPFv3 | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |
| OSPFv3 support for CLIP interfaces | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | Not Supported |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | VSP 8600 8.1 |
| | XA1400 Series | Not Supported |



VOSS Features P to R

Table 96: PIM over IPv6 product support

| Feature | Product | Release introduced |
|---------------|-----------------|--------------------|
| PIM over IPv6 | VSP 4450 Series | VOSS 5.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 97: Port-Based Rate Limiting, Policing, and Shaping product support

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

Table 97: Port-Based Rate Limiting, Policing, and Shaping product support (continued)

| Feature | Product | Release introduced |
|---------------------------------------|-----------------|--------------------|
| Ingress dual rate port policers | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | Not Supported |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |
| Ingress policer and port rate limiter | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.5 |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | VOSS 8.5 |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| QoS ingress port rate limiter | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.1.50 |

Table 98: Port Mirroring product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 |

Table 98: Port Mirroring product support (continued)

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

Table 99: Power Manager product support

| Feature | Product | Release introduced |
|------------------|-----------------|--------------------|
| Power Management | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | Not Supported |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |

Table 100: Power over Ethernet product support

| Feature | Product | Release introduced |
|---------------------------|-----------------|--------------------|
| Power over Ethernet (PoE) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |

Table 100: Power over Ethernet product support (continued)

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

Table 100: Power over Ethernet product support (continued)

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

Table 101: Protocol Independent Multicast-Source Specific Mode product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| PIM-Source Specific Mode (PIM-SSM) for IPv4 | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.0.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |

Table 102: Protocol Independent Multicast - Sparse Mode product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Protocol Independent Multicast-Sparse Mode (PIM-SM) for IPv4 | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.0.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |

Table 102: Protocol Independent Multicast - Sparse Mode product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| PIM Infinite Threshold for IPv4 and IPv6 | VSP 4450 Series | VOSS 8.5 |
| | VSP 4900 Series | VOSS 8.5 |
| | VSP 7200 Series | VOSS 8.5 |
| | VSP 7400 Series | VOSS 8.5 |
| | VSP 8200 Series | VOSS 8.5 |
| | VSP 8400 Series | VOSS 8.5 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 103: QoS and VoIP product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Platform specific considerations for QoS behavior are documented in QoS Behavior Differences, which is in VOSS User Guide . | | |
| Automatic QoS | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 104: Queue Profiles product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 5.1 |

Table 104: Queue Profiles product support (continued)

| Feature | Product | Release introduced |
|-----------------------------|-----------------|--------------------|
| QoS per queue rate limiting | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1.1 |
| | VSP 8400 Series | VOSS 5.1.1 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 105: RADIUS product support

| Feature | Product | Release introduced | Release deprecated |
|--------------------------------------|-----------------|--------------------|--------------------|
| RADIUS (IPv6) | VSP 4450 Series | VOSS 4.1 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 4.2.1 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VOSS 4.1 | Not Applicable |
| | VSP 8400 Series | VOSS 4.2 | Not Applicable |
| | VSP 8600 Series | VSP 8600 6.2 | Not Applicable |
| | XA1400 Series | Not Supported | Not Applicable |
| RADIUS, community-based users (IPv4) | VSP 4450 Series | VSP 4000 4.0 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 4.2.1 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VSP 8200 4.0 | Not Applicable |
| | VSP 8400 Series | VOSS 4.2 | Not Applicable |
| | VSP 8600 Series | VSP 8600 4.5 | Not Applicable |
| | XA1400 Series | VOSS 8.0.50 | Not Applicable |

Table 105: RADIUS product support (continued)

| Feature | Product | Release introduced | Release deprecated |
|--|-----------------|------------------------------------|--------------------|
| RADIUS secure communication using IPSec for IPv4 Note: VOSS Releases 6.0 and 6.0.1 do not support this feature. | VSP 4450 Series | VOSS 5.1.2 | VOSS 8.2 |
| | VSP 4900 Series | VOSS 8.1 | VOSS 8.2 |
| | VSP 7200 Series | VOSS 5.1.2 | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.0 | VOSS 8.2 |
| | VSP 8200 Series | VOSS 5.1.2 | VOSS 8.2 |
| | VSP 8400 Series | VOSS 5.1.2 | VOSS 8.2 |
| | VSP 8600 Series | VSP 8600 8.0 demonstration feature | Not Applicable |
| | XA1400 Series | VOSS 8.0.50 | VOSS 8.2 |
| RADIUS secure communication using IPSec for IPv6 Note: VOSS Releases 6.0 and 6.0.1 do not support this feature. | VSP 4450 Series | VOSS 5.1.2 | VOSS 8.2 |
| | VSP 4900 Series | VOSS 8.1 | VOSS 8.2 |
| | VSP 7200 Series | VOSS 5.1.2 | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.0 | VOSS 8.2 |
| | VSP 8200 Series | VOSS 5.1.2 | VOSS 8.2 |
| | VSP 8400 Series | VOSS 5.1.2 | VOSS 8.2 |
| | VSP 8600 Series | VSP 8600 8.0 demonstration feature | Not Applicable |
| | XA1400 Series | Not Supported | Not Applicable |
| RADIUS Security (RADSec) | VSP 4450 Series | VOSS 8.2 | Not Applicable |
| | VSP 4900 Series | VOSS 8.2 | Not Applicable |
| | VSP 7200 Series | VOSS 8.2 | Not Applicable |
| | VSP 7400 Series | VOSS 8.2 | Not Applicable |
| | VSP 8200 Series | VOSS 8.2 | Not Applicable |
| | VSP 8400 Series | VOSS 8.2 | Not Applicable |
| | VSP 8600 Series | Not Supported | Not Applicable |
| | XA1400 Series | VOSS 8.2 | Not Applicable |
| RFC 5176 – Dynamic Authorization Extensions to RADIUS | VSP 4450 Series | VOSS 7.0 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 7.0 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VOSS 7.0 | Not Applicable |
| | VSP 8400 Series | VOSS 7.0 | Not Applicable |
| | VSP 8600 Series | Not supported | Not Applicable |
| | XA1400 Series | VOSS 8.0.50 | Not Applicable |

Table 105: RADIUS product support (continued)

| Feature | Product | Release introduced | Release deprecated |
|--|-----------------|--------------------|--------------------|
| RFC 5997 - RADIUS Reachability Server Status | VSP 4450 Series | VOSS 7.0 | Not Applicable |
| | VSP 4900 Series | VOSS 8.1 | Not Applicable |
| | VSP 7200 Series | VOSS 7.0 | Not Applicable |
| | VSP 7400 Series | VOSS 8.0 | Not Applicable |
| | VSP 8200 Series | VOSS 7.0 | Not Applicable |
| | VSP 8400 Series | VOSS 7.0 | Not Applicable |
| | VSP 8600 Series | Not supported | Not Applicable |
| | XA1400 Series | VOSS 8.0.50 | Not Applicable |

Table 106: Remote Monitoring product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Remote Monitoring 1 (RMON1) for Layer 1 and Layer 2 Note: VOSS Release 5.0 and 5.1 do not support RMON1. | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |
| Remote Monitoring 2 (RMON2) for network and application layer protocols | VSP 4450 Series | VOSS 4.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.2 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.2 |

Table 107: Representational State Transfer Configuration Protocol (RESTCONF) product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 8.0 |
| | VSP 4900 Series | VOSS 8.1 |

Table 107: Representational State Transfer Configuration Protocol (RESTCONF) product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Representational State Transfer Configuration Protocol (RESTCONF) | VSP 7200 Series | VOSS 8.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 8.0 |
| | VSP 8400 Series | VOSS 8.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 108: RIPng product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| RIPng | VSP 4450 Series | VOSS 5.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.0 |
| | VSP 8400 Series | VOSS 5.0 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 109: Routing Information Protocol product support

| Feature | Product | Release introduced |
|------------------------------------|-----------------|--------------------|
| Routing Information Protocol (RIP) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 110: RSMLT for IPv4 product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 4.1 |

Table 110: RSMLT for IPv4 product support (continued)

| Feature | Product | Release introduced |
|------------|-----------------|--------------------|
| IPv4 RSMLT | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |

Table 111: RSMLT for IPv6 product support

| Feature | Product | Release introduced |
|------------|-----------------|--------------------|
| IPv6 RSMLT | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 112: run spbm installation script product support

| Feature | Product | Release introduced |
|------------------------------|-----------------|--------------------|
| run spbm installation script | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | Not Supported |



VOSS Features S to U

Table 113: Secure Shell product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Secure Shell (SSH) server (IPv4) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| Secure Shell (SSH) client (IPv4) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| Secure Sockets Layer (SSL) certificate management | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 113: Secure Shell product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| SSH server (IPv6) | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |
| SSH client (IPv6) | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | Not Supported |
| SSH client disable | VSP 4450 Series | VOSS 6.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| SSH key sizes in multiples of 1024 Note: VOSS Releases 6.0 and 6.0.1 do not support this change. | VSP 4450 Series | VOSS 5.1.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1.2 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1.2 |
| | VSP 8400 Series | VOSS 5.1.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |

Table 113: Secure Shell product support (continued)

| Feature | Product | Release introduced |
|-----------|-----------------|--------------------|
| SSH rekey | VSP 4450 Series | VOSS 5.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.1 |

Table 114: Segmented Management Instance product support

| Feature | Product | Release introduced |
|---|-----------------|--|
| Segmented Management Instance - Management Interface CLIP | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | VOSS 8.1.1 - IPv4 only Note: VOSS 8.1.50 does not support this feature. |
| Segmented Management Instance - Management Interface OOB | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | VOSS 8.2 |
| | VSP 7200 Series | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.2 |
| | VSP 8400 Series | VOSS 8.2 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 114: Segmented Management Instance product support (continued)

| Feature | Product | Release introduced |
|---|-------------------------------|---|
| Segmented Management Instance - Management Interface VLAN | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.1.1 - IPv4 only VOSS 8.2 added IPv6 Note: VOSS 8.1.50 does not support this feature. |
| Segmented Management Instance — ability to migrate VLAN or loopback IP address | VSP 4450 Series | VOSS 8.2 |
| | VSP 4900 Series | VOSS 8.2 |
| | VSP 7200 Series | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.2 |
| | VSP 8200 Series | VOSS 8.2 |
| | VSP 8400 Series | VOSS 8.2 |
| | VSP 8600 Series | Not Supported |
| Segmented Management Instance — DHCP Client for Management Interface OOB or Management Interface VLAN | VSP 4450 Series | VOSS 8.2 OOB not supported |
| | VSP 4900 Series | VOSS 8.2 |
| | VSP 7200 Series | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.2 |
| | VSP 8200 Series | VOSS 8.2 |
| | VSP 8400 Series | VOSS 8.2 |
| | VSP 8600 Series | Not Supported |
| XA1400 Series | VOSS 8.2 OOB not supported | |

Table 115: sFlow product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 6.0 |

Table 115: sFlow product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| sFlow | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |
| sFlow collector reachability on user-created VRFs | VSP 4450 Series | Not Supported |
| | VSP 4900 Series | Not Supported |
| | VSP 7200 Series | Not Supported |
| | VSP 7400 Series | Not Supported |
| | VSP 8200 Series | Not Supported |
| | VSP 8400 Series | Not Supported |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 116: Simple Loop Prevention Protocol product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Simple Loop Prevention Protocol (SLPP) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 117: Simple Network Management Protocol product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 |

Table 117: Simple Network Management Protocol product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Simple Network Management Protocol (SNMP) v1/2/3 (IPv4) | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| SNMP (IPv6) | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 118: SLA Mon product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| SLA Mon | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |

Table 119: SLPP Guard product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 6.1 |

Table 119: SLPP Guard product support (continued)

| Feature | Product | Release introduced |
|------------|-----------------|--------------------|
| SLPP Guard | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.1 |
| | VSP 8400 Series | VOSS 6.1 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | VOSS 8.0.50 |

Table 120: SONMP product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| SONMP | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 121: Spanning Tree Protocol product support

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

Table 122: spbm-config-mode product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 4.1 |

Table 122: spbm-config-mode product support (continued)

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| spbm-config-mode (boot config flags spbm-config-mode) | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |

Table 123: SPB-PIM Gateway product support

| Feature | Product | Release introduced |
|---------------------------------|-----------------|--|
| SPB-PIM Gateway controller node | VSP 4450 Series | VOSS 6.0 |
| | VSP 4900 Series | VOSS 8.1.5 VSP4900-12MXU-12XE, VSP4900-24S, and VSP4900-24XE only |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |
| SPB-PIM Gateway interface | VSP 4450 Series | VOSS 6.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 124: Static routing product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VSP 4000 4.0 |

Table 124: Static routing product support (continued)

| Feature | Product | Release introduced |
|----------------|-----------------|--------------------|
| Static routing | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 125: TACACS+ product support

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

Table 126: TLS server for secure HTTPS product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| TLS server for secure HTTPS Note: | VSP 4450 Series | VOSS 5.1.2 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1.2 |
| | VSP 7400 Series | VOSS 8.0 |

Table 126: TLS server for secure HTTPS product support (continued)

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

Table 127: Two-Factor Authentication for SSH product support

| Feature | Product | Release introduced |
|-----------------------------------|-----------------|---------------------------|
| Two-Factor Authentication for SSH | VSP 4450 Series | VOSS 8.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 8.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 8.0 |
| | VSP 8400 Series | VOSS 8.0 |
| | VSP 8600 Series | VSP 8600 8.0 demo feature |
| | XA1400 Series | VOSS 8.0.50 |

Table 128: Unicast Reverse Path Forwarding product support

| Feature | Product | Release introduced |
|--|-----------------|--------------------|
| Unicast Reverse Path Forwarding (URPF) checking (IPv4) | VSP 4450 Series | VOSS 5.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.0 |
| | VSP 8400 Series | VOSS 5.0 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |
| Unicast Reverse Path Forwarding (URPF) checking (IPv6) | VSP 4450 Series | VOSS 5.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.0 |
| | VSP 8400 Series | VOSS 5.0 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | Not Supported |



VOSS Features V to X

Table 129: Virtual Inter-Switch Trunk product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Switch cluster (multi-chassis LAG) -Virtual Inter-Switch Trunk (vIST) | VSP 4450 Series | VOSS 4.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | Not Supported |

Table 130: Virtual Link Aggregation Control Protocol (VLACP) product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Virtual Link Aggregation Control Protocol (VLACP) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 130: Virtual Link Aggregation Control Protocol (VLACP) product support (continued)

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

Table 131: Virtual Router Redundancy Protocol product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Virtual Router Redundancy Protocol (VRRP) | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |
| VRRPv3 for IPv4 | VSP 4450 Series | VOSS 5.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | VSP 8600 6.1 |
| | XA1400 Series | VOSS 8.0.50 |

Table 132: Virtual Router Redundancy Protocol for IPv6 product support

| Feature | Product | Release introduced |
|---------|-----------------|--------------------|
| | VSP 4450 Series | VOSS 4.1 |

Table 132: Virtual Router Redundancy Protocol for IPv6 product support (continued)

| Feature | Product | Release introduced |
|-----------------|-----------------|--------------------|
| IPv6 VRRP | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 4.1 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |
| VRRPv3 for IPv6 | VSP 4450 Series | VOSS 5.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 5.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 5.1 |
| | VSP 8400 Series | VOSS 5.1 |
| | VSP 8600 Series | VSP 8600 6.2 |
| | XA1400 Series | Not Supported |

Table 133: Virtual Routing and Forwarding product support

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| Virtualization with IPv4 Virtual Routing and Forwarding (VRF) <ul style="list-style-type: none"> • ARP • DHCP Relay • Inter-VRF Routing (static, dynamic, and policy) • Local routing • OSPFv2 • RIPv1 and v2 • Route policies • Static routing • VRRP | VSP 4450 Series | VSP 4000 4.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 4.2.1 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VSP 8200 4.0 |
| | VSP 8400 Series | VOSS 4.2 |
| | VSP 8600 Series | VSP 8600 4.5 |
| | XA1400 Series | VOSS 8.0.50 |

Table 133: Virtual Routing and Forwarding product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|------------------------------------|
| Increased VRF and Layer 3 VSN scaling | VSP 4450 Series | VOSS 6.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 6.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 6.0 |
| | VSP 8400 Series | VOSS 6.0 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | Not Supported |
| IBGP over user-created VRFs | VSP 4450 Series | VOSS 8.1 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 8.1 |
| | VSP 7400 Series | VOSS 8.1 |
| | VSP 8200 Series | VOSS 8.1 |
| | VSP 8400 Series | VOSS 8.1 |
| | VSP 8600 Series | VSP 8600 8.0 demonstration feature |
| | XA1400 Series | Not Supported |
| IPv6 Virtualization for the following features and functions: <ul style="list-style-type: none"> • IPv6 Interfaces and IPv6 Static Routes in VRFs and Layer 3 VSNs • ECMP and Alternative route • Route redistribution for static and direct routes • VRRPv3 for IPv6 • DHCP Relay • IPv6 Reverse Path Forwarding • ICMP Ping and Traceroute | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | Not Supported |

Table 133: Virtual Routing and Forwarding product support (continued)

| Feature | Product | Release introduced |
|---|-----------------|--------------------|
| IPv6 Virtualization for the following features and functions: <ul style="list-style-type: none"> • Open Shortest Path First for IPv6 (OSPFv3) • IPv6 Border Gateway Protocol (IPv6 BGP) • IPv6 route redistribution enhancements | VSP 4450 Series | VOSS 8.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 8.0 |
| | VSP 7400 Series | VOSS 8.0 |
| | VSP 8200 Series | VOSS 8.0 |
| | VSP 8400 Series | VOSS 8.0 |
| | VSP 8600 Series | VSP 8600 8.0 |
| | XA1400 Series | Not Supported |

Table 134: VXLAN Gateway product support

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

Table 134: VXLAN Gateway product support (continued)

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



VOSS Features Y and Z

Table 135: Zero Touch Deployment product support

| Feature | Product | Release introduced |
|-----------------------|-----------------|--|
| Zero Touch Deployment | VSP 4450 Series | VOSS 8.2 |
| | VSP 4900 Series | VOSS 8.2 VIMs: VIM5-4YE, VIM5-4X, VIM5-4XE, and VIM5-2Y only |
| | VSP 7200 Series | VOSS 8.2 |
| | VSP 7400 Series | VOSS 8.2 |
| | VSP 8200 Series | VOSS 8.2 |
| | VSP 8400 Series | VOSS 8.2 |
| | VSP 8600 Series | Not supported |
| | XA1400 Series | VOSS 8.2 |

Table 136: Zero Touch Fabric Configuration product support

| Feature | Product | Release introduced |
|---------------------------------|-----------------|--------------------|
| Zero Touch Fabric Configuration | VSP 4450 Series | VOSS 7.0 |
| | VSP 4900 Series | VOSS 8.1 |
| | VSP 7200 Series | VOSS 7.0 |
| | VSP 7400 Series | VOSS 8.0.5 |
| | VSP 8200 Series | VOSS 7.0 |
| | VSP 8400 Series | VOSS 7.0 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | Not Supported |

Table 136: Zero Touch Fabric Configuration product support (continued)

| Feature | Product | Release introduced |
|-------------------------|-----------------|--------------------|
| LLDP Fabric Connect TLV | VSP 4450 Series | VOSS 8.3 |
| | VSP 4900 Series | VOSS 8.3 |
| | VSP 7200 Series | VOSS 8.3 |
| | VSP 7400 Series | VOSS 8.3 |
| | VSP 8200 Series | VOSS 8.3 |
| | VSP 8400 Series | VOSS 8.3 |
| | VSP 8600 Series | VSP 8600 8.1 |
| | XA1400 Series | Not Supported |

Table 137: Zero Touch Provisioning Plus product support

| Feature | Product | Release introduced |
|------------------------------|-----------------|--------------------|
| Zero Touch Provisioning Plus | VSP 4450 Series | VOSS 8.2.5 |
| | VSP 4900 Series | VOSS 8.2.5 |
| | VSP 7200 Series | VOSS 8.2.5 |
| | VSP 7400 Series | VOSS 8.2.5 |
| | VSP 8200 Series | VOSS 8.2.5 |
| | VSP 8400 Series | VOSS 8.2.5 |
| | VSP 8600 Series | Not Supported |
| | XA1400 Series | VOSS 8.2.5 |