

Release Notes for VSP Operating System Software

Release 6.1 NN47227-401 Issue 15.06 December 2017

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Chapter 1: Preface

Purpose

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

- Avaya Virtual Services Platform 4000 Series
- · Avaya Virtual Services Platform 7200 Series
- Avaya Virtual Services Platform 8000 Series

This document describes important information about this release for the VOSS products.

These Release Notes include supported hardware and software, scaling capabilities, and a list of known issues (including workarounds, where appropriate). This document also describes known limitations and restrictions.

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- · A description of the failure
- A description of any action(s) already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

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- 5. Type your job title.
- 6. Select the industry in which your company operates.
- 7. Confirm your geographic information is correct.
- 8. Select the products for which you would like to receive notifications.
- 9. Click Submit.

Chapter 2: New in this release

The following sections detail what is new in Release 6.1. **Note:** Release 6.1 does not support VSP 8600.

DHCP Snooping

DHCP Snooping is a Layer 2 security feature that provides network security by filtering untrusted DHCP messages, and it also builds and maintains a DHCP binding table. For more information, see *Configuring Security*.

Distributed Virtual Routing

Release 6.1 provides the following DvR changes:

- full Leaf support for Distributed Virtual Routing (DvR) for VSP 4000.
- better clarity for Layer 2 traceroute messages on a DvR host.
- SNMP trap when two vIST peers from two different DvR domains peer.

Note: You can configure one, and only one, brouter port on a VSP 4000 configured as a DvR Leaf.

For more information, see Configuring IPv4 Routing.

Dynamic ARP Inspection (DAI)

Dynamic ARP Inspection (DAI) is a security feature that validates ARP packets in the network. Without DAI, a malicious user can attack hosts, switches, and routers connected to the Layer 2 network by poisoning the ARP caches of systems connected to the subnet, and intercepting traffic intended for other hosts on the subnet. DAI prevents these attacks by intercepting, logging, and discarding the ARP packets with invalid IP to MAC address bindings. For more information, see *Configuring Security*.

EAPoL enhancements

This release provides the following EAPoL enhancements. For more information on these features, see *Security*.

EAP/NEAP maximum clients per port

This enhancement limits the total number of EAP and NEAP clients per port.

EAP/NEAP separation

This enhancement gives you the ability to disable EAP clients authentication without disabling NEAP clients. There are no additional configuration commands.

EAP and NEAP VLAN names

VLAN names configures VLAN membership of EAP and NEAP clients. You do not have to configure this feature as this mode is always enabled by default.

Enhanced MHMV

Use enhanced MHMV to assign multiple authenticated devices to different VLANs on the same port. Clients can access different VLANs using the MAC address of the devices. Different clients with different level of access in different VLANs can exist on the same port.

Fail Open VLAN

Fail Open VLAN provides network connectivity when the RADIUS Server is unreachable. If RADIUS Server is known as unreachable, new connected clients will access Fail Open VLAN. Already authenticated clients will continue to access their RADIUS Assigned VLANs.

Guest VLAN

Guest VLAN support provides limited network access until the client is authenticated. Guest VLAN is configured irrespective of the number of authenticated clients present on the port. Guest VLAN is available for each port. Only port based VLANs are used as Guest VLANs. When the Guest VLAN feature is configured, port is added to the Guest VLAN and port default VLAN ID changes to Guest VLAN ID.

Multiple Host Single Authentication

Multiple Host Single Authentication (MHSA) allows MACs to access the network without EAP and NEAP authentication. Unauthenticated devices can access the network only after an EAP or NEAP client is successfully authenticated on a port. The VLAN to which the devices are allowed is the client authenticated VLAN. Unless Guest VLAN is configured and there is no authenticated client on the port there will be no MAC allowed to access the network.

RADIUS accounting for EAP and NEAP

The switch provides the ability to account EAP and NEAP sessions using the RADIUS accounting protocol.

RADIUS server reachability

RADIUS server reachability runs a periodic check in the background to identify the available servers. The switch is aware of the first available EAP RADIUS server without going through each of the servers and wait for time-outs.

RFC 3580 RADIUS attributes: IEEE 802.1X Remote Authentication Dial In User Service

There is added support for the following RADIUS attributes, described by RFC 3580:

- Called-Station ID
- Calling-Station ID
- NAS-Port ID

Attributes support both EAP and NEAP clients.

RFC 4675 RADIUS attributes: Egress VLAN

There is added supported for the following RADIUS attributes, described by RFC 4675:

- Egress-VLAN ID
- Egress-VLAN name

End of Sale notice for 8284XSQ DC

The 8284XSQ DC switch model is no longer available for sale, but it is still supported.

Fabric Extend licensing change

Fabric Extend no longer requires a Premier License. It is now included in the Base License.

IP Directed Broadcast enhancement on VSP 4000

IP Directed Broadcast enables the switch to forward packets with valid destination subnet broadcast addresses, originating from a node that is not on that subnet. This enhancement provides a boot flag (**linerate-directed-broadcast**) that enables VSP 4000 Series platforms to support IP Directed Broadcast in hardware without requiring CPU intervention. Setting this boot flag will put port 1/46 into loopback mode, making it unusable for external connections, so you need to move any existing connections on this port first. After setting this boot flag, save the configuration and restart the switch for the feature to take effect.

IMPORTANT: The software cannot be upgraded or downgraded to a software release that does not contain this directed broadcast hardware assist functionality without first disabling this feature and saving the configuration.

For more information, see Administering.

IP Source Guard

IP Source Guard is a Layer 2 port-to-port feature that provides security to the network by filtering clients with invalid IP addresses.

For more information, see Configuring Security.

IPv6 Host mode

IPv6 Host mode is typically used for out of band management interfaces or on end-devices. When an interface is configured for Host mode, it functions as an IPv6 host. The interface accepts Router Advertisement (RA) messages from other devices and broadcasts Router Solicitation (RS) messages to other devices. For more information, see *Configuring IPv6 Routing*.

Layer 2 Video Surveillance install script

The Layer 2 video surveillance install script automatically pre-configures a video surveillance network that supports up to 2000 IP cameras. The install script uses best practices for converged solutions and provides redundant paths for all video traffic. The script configures Shortest Path Bridging and uses Layer 2 VSNs to enable full multicast capabilities between all IP subnets and VLANs.

For more information, see Configuring Fabric Basics and Layer 2 Services.

Redirect next hop enhancements

There are two enhancements to the redirect next-hop ACL feature:

- Redirect next-hop for VRFs allows users to specify an optional VRF name in addition to the next hop address.

- Redirect next hop action when next hop is unreachable allows an optional "unreachable" action to be configured for redirect next hop ACEs when the specified next hop is unreachable.

For more information, see Configuring QoS and ACL-Based Traffic Filtering.

Release 5.1.2 features

Release 5.1.2 features are supported in Release 6.1. These features were not included in Releases 6.0 and 6.0.1.

IMPORTANT: A Release 5.1.2 enhancement called, "TLS server for secure HTTPS" changed the default value for the minimum password length for the web server. The default minimum password length is 8 characters. Existing passwords less than 8 characters are not affected; the software enforces the default minimum for password changes.

Release 5.3 features

Release 5.3 features are supported in Release 6.1. These features were not included in Releases 6.0 and 6.0.1. Release 5.3 added support for VSP 8404C.

Reserved I-SIDs

A consistency check is added to prevent configuration of the reserved I-SID range greater than, or equal to, 16,000,000.

Reserved VLAN change

As a result of VRF scaling, the range of reserved VLANs changed from 3500-3999 to 3500-3998.

Route metric for BGP route redistribution

You can now enable a route metric-type when you configure BGP route redistribution. If you enable the live-metric option, when BGP redistributes static, RIP, OSPF, IS-IS, or DvR routes, the metric value is taken from the routing table and is set to the Path attributes as a MED value. By default, this option is disabled, which means the BGP MED value is not derived from the metric in the routing table.

For more information, see Configuring BGP Services.

SLPP Guard

Use SLPPGUARD with Split Multi-Link Trunking (SMLT) to provide additional loop protection to protect wiring closets from erroneous connections. When SLPP is enabled for SMLT configurations, SLPP-PDU packets are transmitted, which helps prevent loops from occurring. When you enable SLPPGUARD, this loop prevention mechanism is extended to individual edge access ports. If the edge switch with SLPPGUARD enabled receives an SLPP-PDU packet on a port, the port is disabled operationally, and appropriate log messages and SNMP traps are generated.

For more information, see Configuring Link Aggregation, MLT, SMLT, and vIST.

Suspending duplicate system ID detection

You can suspend duplicate ISIS SPBM node detection on a replacement switch so that you can bring the switch into the network immediately.

For more information, see Configuring Fabric Connect Basics and Layer 2 Services.

Transceiver support

VSP Operating System software now allows the use of transceivers and direct attach cables from any vendor, which means that the switch will bring up the port operationally when using any transceiver. Extreme Networks does not provide support for operational issues related to the use of non-Extreme branded transceivers and direct attached cables used in the switches.

VSP 4000 rate limiting enhancement

The VSP 4000 rate limiting weight for queue 6 increased from 20% to 50% and for queue 7 from 2% to 5%, by default. This means that a VSP 4000 that was rate limiting at 20% and 2% in prior releases will rate limit at 50% and 5% when you upgrade to Release 6.1. This change is automatic. There are no QoS configuration changes required.

For a list of features, see Features by Release

Chapter 3: Filenames

To download the software files, use one of the following browsers: IE 9 or later

Mozilla Firefox 37 and later

Do not use Google Chrome or Safari to download software files. Google Chrome can change the file sizes. Safari changes the .tgz extension to .tar.

After you download the software, calculate and verify the md5 checksum. For more information, seeAdministering.

Starting in VOSS 4.2, the encryption modules are included as part of the standard runtime software image file.

Prior to VOSS 4.2.1, image filenames began with VSP, for example, VSP4K4.1.0.0.tgz. In VOSS 4.2.1 and later, image filenames start with VOSS, for example, VOSS8K4.2.1.0.tgz.

Software filenames and sizes

Description	VSP 4000 Series	VSP 7200 Series	VSP 8000 Series
-	VOSS4K.6.1.0.0.sha512	VOSS7K.6.1.0.0.sha512	VOSS8K.6.1.0.0.sha512
SHA512 Checksum files	1,543 bytes	1,537 bytes	2,017 bytes
	VOSS4K.6.1.0.0.md5	VOSS7K.6.1.0.0.md5	VOSS8K.6.1.0.0.md5
MD5 Checksum files	583 bytes	577 bytes	769 bytes
	VOSS4K.6.1.0.0_mib_sup.txt	VOSS7K.6.1.0.0_mib_sup.txt	VOSS8K.6.1.0.0_mib_sup.txt
MIB - supported object names	1,179,418 bytes	1,181,659 bytes	1,181,659 bytes
	VOSS4K.6.1.0.0_mib.zip	VOSS7K.6.1.0.0_mib.zip	VOSS8K.6.1.0.0_mib.zip
MIB - zip file of all MIBs	1,076,891 bytes	1,076,891 bytes	1,076,891 bytes
	VOSS4K.6.1.0.0_mib.txt	VOSS7K.6.1.0.0_mib.txt	VOSS8K.6.1.0.0_mib.txt
MIB - objects in the OID compile order	7,151,697 bytes	7,151,697 bytes	7,151,697 bytes
	VSP4000v6.1.0.0.zip	VOSSv6.1.0.0.zip	VOSSv6.1.0.0.zip
EDM plug-in for COM	4,965,057 bytes	5,330,293 bytes	5,330,293 bytes
	VSP4000v610_APLS_HELP_EDM_gzip.zip	VOSSv610_APLS_HELP_EDM_gzip.zip	VOSSv610_APLS_HELP_EDM_gzip.zip
EDM Help files	3,336,675 bytes	3,339,413 bytes	3,339,413 bytes
	VOSS4K.6.1.0.0_edoc.tar	VOSS7K.6.1.0.0_edoc.tar	VOSS8K.6.1.0.0_edoc.tar
Logs reference	62,423,040 bytes	62,423,040 bytes	62,423,040 bytes
	VOSS4K.6.1.0.0.tgz	VOSS7K.6.1.0.0.tgz	VOSS8K.6.1.0.0.tgz
Software image	104,314,315 bytes	66,429,564 bytes	120,480,361 bytes

Open Source software files

Description	VSP 4000 Series	VSP 7200 Series	VSP 8000 Series
	VOSS4K.6.1.0.0_OpenSource.zip	VOSS7K.6.1.0.0_OpenSource.zip	VOSS8K.6.1.0.0_OpenSource.zip
Open source base software	95,871,740 bytes	95,871,740 bytes	95,871,740 bytes
	VOSS4K.6.1.0.0_oss-notice.html	VOSS7K.6.1.0.0_oss-notice.html	VOSS8K.6.1.0.0_oss-notice.html
Master copyright file	418,984 bytes	418,984 bytes	418,984 bytes

The Open Source license text for the switch is included on the product. You can access it by typing the following command in the CLI: more release/w.x.y.z.GA/release/oss-notice.txt

where w.x.y.z represents a specific release number.

Chapter 4: VOSS feature differences

Extreme Networks has implemented feature parity between the VSP Operating System Software (VOSS) platforms in all but a few exceptions. Some features are supported in one platform and not another to maintain compatibility with previous releases. In other cases, the difference is because of the role of the switch in the network.

Feature	VSP 4000 Series	VSP 7200 Series	VSP 8000 Series
CFM CMAC for the CVLAN	Supported	Not supported	Not supported
Channelization of 40 Gbps ports	Not applicable	Supported	Supported
DvR Controller	Not supported	Supported	Supported
Fabric RSPAN	Flow-based Mirroring into	Supported	Supported
	single ISID only		oupponed
FDB protected by port (MAC security limit-learning)	Supported	Not supported	Not supported
Ingress Dual Rate Port Policers	Supported	Not supported	Not supported
Layer 2 Video Surveillance install script	Supported	Supported	N/A
Layer 3 Video Surveillance install script (formerly called Endura script)	Supported	N/A	N/A
Multicast Route Statistics for IPv4 and IPv6	Not supported	Supported	Supported
NLB Unicast and Multicast	Not supported	Supported	Supported
PoE/PoE+ Allocation Using LLDP	Supported on VSP 4850GTS-PWR+ and VSP 4450GTX-HT-PWR+	Not supported	Not supported
Port licensing	Not supported	Applicable to Port licensed VSP 7254XSQ fiber switch and VSP 7254XTQ copper switch	Not supported
QoS	Supported	Supported with exceptions: • Classification does not have routed packet classification • No ingress policer- Uses ingress port rate limiting instead	Supported with exceptions: • Classification does not have routed packet classification • No ingress policer- Uses ingress port rate limiting instead
sFlow	Reduced sampling rate	Supported	Supported
Software licensing (Premier)	Supports the Avaya Data Licensing Portal and the Product Licensing & Delivery System (PLDS)	Supports Product Licensing & Delivery System (PLDS) only	Supports Product Licensing & Delivery System (PLDS) only
SPM-PIM GW Controller	Not supported on VSP 4850	Supported	Supported
Use of Open Networking Adapter for Fabric Extend	Required	Not required	Not required
VXLAN Gateway	Not supported	Supported	Supported

The following table summarizes the feature differences between the platforms in this release.

Chapter 5: Upgrade considerations

The Administering document includes detailed image management procedures that includes information about the following specific upgrade considerations:

- · Notes for systems using IPv6 static neighbors
- Pre-upgrade instructions for IS-IS metric type
- · Upgrade considerations regarding MACsec replay-protect configuration
- · Upgrade support for the nni-mstp boot configuration flag
- Upgrade considerations for IS-IS enabled links with HMAC-MD5 authentication
- Considerations for IPv6 VRRP or DHCP Relay configurations saved in VOSS 4.1 or 4.2
- TACACS+ upgrade consideration

If your configuration includes one of the above scenarios, read the upgrade information in *Administering* before you begin an image upgrade.

Supported upgrade paths

This section identifies the software releases for which upgrades to this release have been validated.

Upgrading to VOSS 6.1 includes the following specific platform and feature dependencies:

- DvR: validated upgrade path is from VOSS 6.0.1.2 to VOSS 6.1.
- VSP 8404C: validated upgrade path is from VOSS 5.3 to VOSS 6.1.

For all other features and platforms, the validated upgrade paths are VOSS 5.1.1.x, VOSS 5.1.2.x, or VOSS 6.0.1.x to VOSS 6.1. For non-validated upgrade paths, perform the upgrade with one or two switches initially before doing a widespread upgrade.

Upgrading DvR configurations from Releases 6.0.1.1 and earlier to 6.0.1.2 and beyond

All DvR nodes must be upgraded to the same release as quickly as possible. This release includes changes to I-SID ranges that are utilized for DvR communication, and thus introduces an incompatibility with DvR nodes running 6.0.1.1 and earlier, with 6.0.1.2 and beyond.

All DvR Leaf nodes should be upgraded first to minimize the impact of this incompatibility and the resulting loss of connectivity between DvR Controller nodes and Leaf nodes while nodes are at incompatible versions. Once all Leaf nodes have been upgraded, the Controller nodes should then be upgraded, which will then restore DvR connectivity to the already upgraded Leaf nodes.

Note: During the period of time when the Leaf nodes and Controller nodes are running incompatible versions, there will be no DvR connectivity between the Controller and Leaf nodes so this activity should be planned accordingly.

Chapter 6: Important notices

This section provides important information for this release. Unless specifically stated otherwise, the notices in this section apply to all VOSS platforms.

AES-GCM SSH connection with Open SSH

Switch side encryption and authentication type must be set to the AES-GCM-128/256 methods and needs at least one hmac method in the authentication list in addition for the connection to work.

Auto negotiation settings

VOSS 4.1 and later software requires the same auto negotiation settings on link partners to avoid incorrect declaration of link status. Mismatched settings can cause the links to stay down as well as unpredictable behavior. Ensure the auto negotiation settings between local ports and their remote link partners match before upgrading software to VOSS 4.1 or later.

dos-chkdsk

If at the end of the dos-chkdsk WORD<1-99>command output you see: 1) Correct

2) Don't correct

Then, you should run the dos-chkdsk WORD<1-99>repair command.

EDM browser support

Use the following recommended browser versions to access Enterprise Device Manager (EDM):

- Microsoft Edge 38.14393
- Microsoft Internet Explorer 11
- Mozilla Firefox 50+

Note: The following earlier browser versions can be used to access EDM (although not recommended): • Microsoft Internet Explorer 9 and 10

Mozilla Firefox 37 through 49

Fabric Attach interoperability notes

For Fabric Attach to operate between a VOSS platform and an ERS device, the ERS device must meet minimum software requirements. The following tables identify the minimum GA software releases required to build an FA solution.

Table 1: Extending Fabric using Static FA Proxy configuration (ISID/VLAN is manually configured on FA Proxy)

г	A Server		FAFIOXY
Product			Minimum release
VSP 4000		ERS 5900	7.0.1
VSP 7200	5.0.0.0	ERS 5600	6.6.3
VSP 8200	5.0.0.0	ERS 4800	5.9.2
VSP 8400		ERS 4500	5.7.3

Table 2: Extending Fabric to FA Clients by using FA Proxy

FA	Server	FA P	FA Proxy		FA Client	
Product	Minimum release	Product	Minimum release	FA Policy	Product	Minimum release
VSP 4000		ERS 5900	7.0.1	IDE Release 9.1		
VSP 7200	5.0.0.0	ERS 5600	6.6.3	(See Note below)*	AP9100	7.2.5
VSP 8200	5.0.0.0	ERS 4800	5.9.2		AF9100	7.2.5
VSP 8400]	ERS 4500	5.7.3]		

* Required for AP9100 FA Client. IDE sends FA ISID/VLAN assignment request by using FA Proxy to VOSS FA Server.

IKEv2 digital certificate support with Strong Swan

Strong Swan server must be customized to get IKEv2 Digital Certificate connection between switch and server for RFCs that Strong Swan is compliant and switch is not. This includes SHA256 signing check, IPv6 identifier check and others.

show vlan remote-mac-table command output

• The output for the show vlan remote-mac-tablecommand can be different than what appears for the same command on VSP 9000.

 Because all MinM packets that originate from the IST switch use the virtual B-MAC as the source BMAC, the remote BEB learns the C-MAC against the virtual B-MAC.

• Because the remote BEB uses the shortest path to the virtual B-MAC, the remote BEB can show the IST peer as a tunnel in the show vlan remote-mac-table command output.

VSP 4000 connecting to an ERS 8800 interoperability notes

- · For customers running version 7.1.x:
- The minimum software release is 7.1.3.1, however the recommended ERS 8800 software release is 7.1.5.4 or later. On switches using 8612 XLRS or 8812XL modules for the links connecting to the VSP 4000, the minimum software version is 7.1.5.4. The "spbm version" on the ERS 8800 must be set to "802.1aq".
- For customers running version 7.2.x: The minimum software release is 7.2.0.2, however the recommended ERS 8800 software release is 7.2.1.1 or later. On switches using 8612 XLRS or 8812XL modules for the links connecting to the VSP 4000 the minimum software version is 7.2.1.1.
- Diffserv is enabled in the VSP 4000 port settings, and is disabled in the ERS 8800 port settings, by default.

VSP 4000 notes on combination ports

When the VSP 4000 is reset, the peer connections for all ports, including combination ports 47 and 48 on VSP 4450GTX-HT-PWR+, will transition down. During the reset, the fiber ports remain down, but only the copper ports 47 and 48 come up periodically throughout the reset. The copper ports 47 and 48 come up approximately 15 seconds into the reset, remain up for approximately 60 seconds, and then transition down until the boot sequence is complete and all ports come back up.

The following is an example of the status of the combination ports during reset.

CP1	[03/18/70	09:55:35.890]	0x0000c5e7	00300001.238	DYNAMIC	SET GlobalRouter HW INFO Link Down(1/4	17)
CP1	[03/18/70	09:55:35.903]	0x0000c5e7	00300001.239	DYNAMIC	SET GlobalRouter HW INFO Link Down(1/4	48)
CP1	[03/18/70	09:55:49.994]	0x0000c5ec	00300001.239	DYNAMIC	CLEAR GlobalRouter HW INFO Link Up(1/4	18)
CP1	[03/18/70	09:55:50.322]	0x0000c5ec	00300001.238	DYNAMIC	CLEAR GlobalRouter HW INFO Link Up(1/4	±7)
CP1	[03/18/70	09:56:43.131]	0x0000c5e7	00300001.238	DYNAMIC	SET GlobalRouter HW INFO Link Down(1/4	±7)
CP1	[03/18/70	09:56:43.248]	0x0000c5e7	00300001.239	DYNAMIC	SET GlobalRouter HW INFO Link Down(1/4	48)

Cabled connections for both copper and fiber ports

The following limitations apply when the combination ports have cabled connections for both the copper and fiber ports.

- Do not use the fiber port and do not insert an SFP into the optical module slot in the following situations:

 a copper speed setting of either 10M or 100M is required
 a copper duplex setting of half-duplex is required

Notes:

These limitations are applicable only when auto-negotiation is disabled. To avoid this limitation, use auto-negotiation to determine the speed to 10/100/1000 and to determine the duplex.

The 100M-FX SFP requires auto-negotiation to be disabled. Therefore, auto-negotiation will also be disabled for the copper port. Configure peer switch to disable auto-negotiation.

Chapter 7: Hardware compatibility

The following tables list the hardware compatibility for all VOSS platforms and power supplies:

<u>VSP 4000 hardware</u> <u>VSP 7200 hardware</u> <u>VSP 8000 hardware</u> <u>Transceivers</u> Power supply compatibility

VSP 4000 hardware

Part number	Model number	Initial release	Supported release					
			5.1	5.1.1	6.0	6.0.1	6.1	
EC4400004-E6	VSP 4450GSX-DC	4.0.50	Y	Y	Y	Y	Y	
EC4400A03-E6	VSP 4450GTX-HT-PWR+ (no power cord)	4.0.40	Y	Y	Y	Y	Y	
EC4400E03-E6	VSP 4450GTX-HT-PWR+ (NA power cord)	4.0.40	Y	Y	Y	Y	Y	
EC4400x05-E6 Note: Replace the "x" with a country specific power cord code. See the footnote for details.	VSP 4450GSX-PWR+	4.0	Y	Y	Y	Y	Y	
EC4400A05-E6GS	VSP 4450GSX-PWR+ TAA Compliant (no power cord)	4.0.50	Y	Y	Y	Y	Y	
EC4400E05-E6GS	VSP 4450GSX-PWR+ TAA Compliant (NA power cord)	4.0.50	Y	Y	Y	Y	Y	
EC4800078-E6	VSP 4850GTS DC	3.0	Y	Y	Y	Y	Y	
EC4800x78-E6 EC4800x78-E6GS Note: Replace the "x" with a country specific power cord code. See the footnote for details.	VSP 4850GTS	3.0	Y	Y	Y	Y	Y	
EC4800x88-E6 EC4800x88-E6GS Note: Replace the "x" with a country specific power cord code. See the footnote for details.	VSP 4850GTS-PWR+	3.0	Y	Y	Y	Y	Y	

Note: The character (x) in the order number indicates the power cord code. Replace the "x" with the proper letter to indicate the desired product nationalization. See the following for details:

"A": No power cord included.

"B": Includes European "Schuko" power cord common in Austria, Belgium, Finland, France, Germany, The Netherlands, Norway, and Sweden.

"C": Includes power cord commonly used in the United Kingdom and Ireland.

"D": Includes power cord commonly used in Japan.

"E": Includes North American power cord.

"F": Includes Australian power cord.

VSP 4000 operational note

Warning:

The USB FLASH drive on all models of VSP 4850 (factory built and converted from ERS 4850) must be treated as a permanent nonremovable part of the switch and must NEVER be removed from the switch to ensure proper operation. Additionally, the USB cover must be installed to ensure additional protection against removal. The USB FLASH drive on the VSP 4850 switch is uniquely and permanently bound to the operating system of the switch its first used on and cannot be transferred to a different switch. Removal (and reinsertion) of the USB FLASH drive from the switch is not supported as it can permanently compromise the switch functionality and render it nonfunctional.

VSP 7200 hardware

Part number	Model number	Initial release	Supported release				
			5.1	5.1.1	6.0	6.0.1	6.1
EC720001F-E6	VSP 7254XSQ DC (Front to back airflow)	4.2.1	Y	Y	Y	Y	Y

EC7200x1B-E6 EC7200x1F-E6	VSP 7254XSQ	4.2.1					
B represents back to front airflow. F represents front to back airflow.			Y	Y	Y	Y	Y
Note: Replace the "x" with a country specific power cord code. See the footnote for details.							
EC720002F-E6	VSP 7254XTQ DC (Front to back airflow)	4.2.1	Y	Y	Y	Y	Y
EC7200x2B-E6 EC7200x2F-E6	VSP 7254XTQ	4.2.1					
B represents back to front airflow. F represents front to back airflow.			Y	Y	Y	Y	Y
Note: Replace the "x" with a country specific power cord code. See the footnote for details.							
EC7200x3B-E6 EC7200x3F-E6	VSP 7254XSQ Port Licensed	5.1					
B represents back to front airflow. F represents front to back airflow. Note: Replace the "x" with a country specific power cord code. See the footnote for details.			Y	Y	Y	Y	Y
EC7200x4B-E6	VSP 7254XTQ Port	5.1					
EC7200x4F-E6 B represents back to front airflow. F represents front to back airflow. Note: Replace the "x"	Licensed		Y	Y	Y	Y	Y
with a country specific power cord code. See the footnote for details.							

Note: The character (x) in the order number indicates the power cord code. Replace the "x" with the proper letter to indicate the desired product nationalization.

See the following for details: "A": No power cord included.

"B": Includes European "Schuko" power cord common in Austria, Belgium, Finland, France, Germany, The Netherlands, Norway, and Sweden.

"C": Includes power cord commonly used in the United Kingdom and Ireland.

"D": Includes power cord commonly used in Japan.

"E": Includes North American power cord.

"F": Includes Australian power cord.

VSP 7200 operational notes

 The VSP 7254XSQ has a PHYless design, which is typical for Data Center top of rack switches. The benefits of a PHYless design are lower power consumption and lower latency. However, due to the PHYless design, the following transceivers are not supported: - AA1403017-E6: 1-port 10GBASE-LRM SFP+

-AA1403016-E6: 1-port 10GBase-ZR/ZW SFP+ The AA1403165 10GBASE-ZR CWDM DDI SFP+ transceiver can be substituted for AA1403016-E6 10GBASE-ZR/ZW SFP+.

• Software partitions the switch into two logical slots: Slot 1 and Slot 2.

- Slot 1: 10 Gbps ports: 1 - 48

- Slot 2: 40 Gbps ports: 1 - 6

• Channelization is supported on the 40 Gbps QSFP+ ports.

MACsec support:

- MACsec is only supported on the VSP 7254XTQ 10 Gbps ports.

- MACsec is not supported on VSP 7254XSQ 10 Gbps ports.

- MACsec is not supported on VSP 7254XTQ and VSP 7254XSQ 40 Gbps ports whether channelization is enabled or not.

- Port licensing support on the port licensed VSP 7254XSQ fiber switch:
- 24 ports (Slot 1, ports 25 to 48) out of the 48 1/10 GbE SFP/SFP+ ports require a Port License to be unlocked.
- two ports (Slot 2, ports 5 and 6) out of the six 40 GbE QSFP+ ports require a Port License to be unlocked.

Port licensing support on the port licensed VSP 7254XTQ copper switch:

- 24 ports (Slot 1, ports 25 to 48) out of the 48 100 Mbps/1 GbE/10 GbE RJ-45 ports require a Port License to be unlocked. - two ports (Slot 2, ports 5 and 6) out of the six 40 GbE QSFP+ ports require a Port License to be unlocked.
- 1000BASE-T SFP (AA1419043-E6) will only operate at 1 Gbps speeds when used on a VSP 7254XSQ.
- When you use 1 Gigabit Ethernet SFP transceivers on VSP 7254XSQ, the software disables auto-negotiation on the port:
 If you use 1 Gbps fiber SFP transceivers, the remote end must also have auto-negotiation disabled.
- If you use 1 Gbps copper SFP transceivers, the remote end must have auto-negotiation enabled. If not, the link will not be established.
- When a port on VSP 7254XSQ is disabled or enabled, or a cable replaced, or the switch rebooted, the remote link can flap twice.
- Enable auto-negotiation to ensure proper operation at 100 Mbps speeds on VSP 7254XTQ:
- Link instability will be seen if both ends are set to 100 Mbps auto-negotiation disabled and you use a straight through cable.
- If Link instability is seen when you use a cross-over cable, a port disable or enable can fix the issue.

For more information, see Installing Transceivers and Optical Components on VSP Operating System Software, NN47227-301.

VSP 8000 hardware

Part number	Model number	Initial release	Supported release				
			5.1.1	5.3	6.0	6.0.1	6.1
EC8200x01-E6 EC8200x01-E6GS	VSP 8284XSQ	4.0					
Note: Replace the "x" with a country specific power cord code. See the footnote for details.			Y	Ν	Y	Y	Y
EC8200001-E6	VSP 8284XSQ-DC	4.0.50	Y	Ν	Y	Y	Y
EC8400001-E6	VSP 8404-DC	4.2.1	Y	Ν	Y	Y	Y
EC8400x01-E6 EC8200x01-E6GS	VSP 8404	4.2					
Note: Replace the "x" with a country specific power cord code. See the footnote for details.			Y	Ν	Y	Y	Y
EC8400002-E6	VSP 8404C-DC	5.3	Ν	Y	N	N	Y
EC8400x02-E6 EC8200x02-E6GS	VSP 8404C	5.3					
Note: Replace the "x" with a country specific power cord code. See the footnote for details.			Ν	Y	Ν	Ν	Y
Ethernet Switch Modules (E Important: Ensure the switch runs, at a r		software release befor	e vou install an ESN	1			
EC8404001-E6 EC8404001-E6GS	8424XS	4.2	Y	Y	Y	Y	Y
EC8404002-E6 EC8404002-E6GS	8424XT	4.2	Y	Y	Y	Y	Y
EC8404003-E6 EC8404003-E6GS	8408QQ	4.2	Y	Y	Y	Y	Y
EC8404005-E6 EC8404005-E6GS	8418XSQ	4.2	Y	Y	Y	Y	Y
EC8404006-E6 EC8404006-E6GS	8418XTQ	5.0	Y	Y	Y	Y	Y
EC8404007-E6 EC8404007-E6GS	8424GS	5.0	Y	Y	Y	Y	Y
EC8404008-E6 EC8404008-E6GS	8424GT	5.0	Y	Y	Y	Y	Y

	8402CQ (supported in VSP 8404C onlv)	5.3	Ν	Y	N	N	Y
Note: The character (x) in the See the following for details: "A": No power cord included. "B": Includes European "Schu "C": Includes power cord com	ko" power cord common in	Austria, Belgium, Fi	nland, France, Germ				n.

"D": Includes power cord commonly used in Japan.

"E": Includes North American power cord.

"F": Includes Australian power cord.

Transceivers

VSP Operating System software now allows the use of transceivers and direct attach cables from any vendor, which means that the switch will bring up the port operationally when using any transceiver. Extreme Networks does not provide support for operational issues related to the use of non-Extreme branded transceivers and direct attached cables used in the switches. For more information, see Installing Transceivers and Optical Components on VSP Operating System Software, NN47227-301.

Power supply compatibility

You can use certain power supplies in more than one VOSS platform. This section lists the power

supplies and indicates the compatible platforms.

- For more specific information on each power supply, see the following documents:
- Installing Extreme Networks Virtual Services Platform 4850GTS Series, NN46251-300
 Installing Extreme Networks Virtual Services Platform 4450GTX-HT-PWR+ Switch, NN46251–304
- Installing Extreme Networks Virtual Services Platform 4450GSX-PWR+ Switch, NN46251-307
- Installing the Extreme Networks Virtual Services Platform 8000 Series, NN47227-300
- Installing the Extreme Networks Virtual Services Platform 7200 Series, NN47228-302

VSP 4000 Series power supplies

Platform	300 W AC AL1905x08-E5	300 W DC AL1905005-E5	1,000 W AC AL1905x21-E6	1,000 W AC-HT EC4005x03-E6HT
VSP 4850GTS-DC	—	Y	_	—
VSP 4850GTSPWR+	—	_	Y	Y
VSP 4850GTS	Y	_	_	—
VSP 4450GTX-HT-PWR+	—	_	_	Y
VSP 4450GSX-DC	—	Y	_	—
VSP 4450GSXPWR+	—		Y	Y

VSP 7200 Series and VSP 8000 Series power supplies

Platform	460 W AC front-to-back EC7205x1F-E6	460 W AC back-to-front EC7205x1B-E6	800 W AC front-to-back EC8005x01-E6	800 W AC front-to-back EC7205x0F-E6	800 W AC back-to-front EC7205x0B-E6	800 W DC front-to-back EC8005001-E6
VSP 8284XSQ	—	—	Y	—	—	—
VSP 8284XSQ-DC	—	_	_	_	_	Y
VSP 8404	—	_	Y	_	_	—
VSP 8404-DC	—	_	_	—	—	Y
VSP 8404C	—	_	Y	_	_	_
VSP 8404C-DC	—	_	_	_	_	Y
VSP 7254XSQ front-to-back	Y	_	_	_	_	_
VSP 7254XSQ back-to-front	_	Y		_	_	_
VSP 7254XTQ front-to-back	_	_	_	Y	—	_
VSP 7254XTQ back-to-front	—	_		—	Y	—
VSP 7254XSQ-DC	_	_	_	_	_	Y
VSP 7254XTQ-DC	—	_	_	_	_	Y

Note: The character (x) in the order number indicates the power cord code. Replace the "x" with the proper letter to indicate the desired product nationalization.

See the following for details:

"A": No power cord included.

"B": Includes European "Schuko" power cord common in Austria, Belgium, Finland, France, Germany, The Netherlands, Norway, and Sweden.

"C": Includes power cord commonly used in the United Kingdom and Ireland.

"D": Includes power cord commonly used in Japan. "E": Includes North American power cord.

"F": Includes Australian power cord.

Chapter 8: Software scaling capabilities

This section lists software scaling capabilities of the following products: • Extreme Networks Virtual Services Platform 4000 Series • Extreme Networks Virtual Services Platform 7200 Series • Extreme Networks Virtual Services Platform 8000 Series

Г		Maximum number supported	
	VSP 4000 Series	VSP 7200 Series	VSP 8000 Series
ayer 2 irected Broadcast interfaces		200	000
liected Broadcast Interfaces	n/a	*See NOTE	200 *See NOTE
NOTE:			occitorie
	must be less than or equal to 200. However, if	you configure VLANs with both NLB and Directed B	roadcast, you can only scale up to 100 VLANs.
AC table size (without SPBM)	32,000	224,000	224,000
AC table size (with SPBM)	16,000	112,000	112,000
ort-based VLANs	4,059	4,059	4,059
rivate VLANs	1,000	4,059	4,059
rotocol-based VLANs (IPv6 only)	1	1	1
STP instances	1	1	1
STP instances	12	12	12
ACP aggregators	24	54 (up to 72 with channelization)	84 (up to 96 with channelization)
orts per LACP aggregator	8 active	8 active	8 active
LT Groups	50	54 (up to 72 with channelization)	84 (up to 96 with channelization)
orts per MLT group	8	8	8
_PP VLANs	128	128	128
ACP interfaces	50	54 (up to 72 with channelization)	84 (up to 96 with channelization)
crosoft NLB cluster IP interfaces	n/a	200	200
NOTE:		*See NOTE	*See NOTE
LANs. You can configure 1 VLAN with up to or example: 1 virtual interface per cluster x 2 owever, if you configure VLANs with both NL	200 NLB cluster IP interfaces or configure up to 00 clusters = 200 or 2 virtual interfaces per clus	t be less than or equal to 200. The number of NLB (o 200 VLANs with 1 NLB cluster IP interface per VL ster x 100 clusters = 200 up to 100 VLANs assuming there is only 1 NLB clusters	AN.
P Unicast			
P interfaces (IPv4 or IPv6 or IPv4+IPv6)	256	506 *See NOTE	VSP 8404C = 503 Other VSP 8000 Series platforms = 506 *See NOTE
RRP interfaces (IPv4 or IPv6)	64	252 *See NOTE	252 *See NOTE
outed Split Multi-Link Trunking (RSMLT)	252	252	252
terfaces (IPv4 or IPv6 or IPv4+IPv6)	232	252 *See NOTE	252 *See NOTE
If you enable the VRF scaling boot configura	VRRP IPv6 interfaces) – (# of RSMLT interface tion flag: VRRP IPv6 interfaces) - (# of RSMLT interface		
If you enable the VRF scaling boot configura = 506 - (# of VRRP IPv4 interfaces) - (# of RRP interfaces with fast timers (200ms) - v4/IPv6	tion flag: VRRP IPv6 interfaces) - (# of RSMLT interface 24	es) – 2 (if IP Shortcuts is enabled) – 3 24	24 504 with v4ST
If you enable the VRF scaling boot configura = 506 - (# of VRRP IPv4 interfaces) - (# of RRP interfaces with fast timers (200ms) - v4/IPv6	tion flag: VRRP IPv6 interfaces) - (# of RSMLT interface 24 501 with vIST	es) – 2 (if IP Shortcuts is enabled) – 3 24 501 with vIST	501 with vIST
f you enable the VRF scaling boot configura = 506 – (# of VRRP IPv4 interfaces) – (# of RRP interfaces with fast timers (200ms) - v4/IPv6 vR Virtual IP interfaces	tion flag: VRRP IPv6 interfaces) - (# of RSMLT interface 24 501 with vIST 502 without vIST	es) – 2 (if IP Shortcuts is enabled) – 3 24 501 with vIST 502 without vIST	501 with vIST 502 without vIST
f you enable the VRF scaling boot configura = 506 – (# of VRRP IPv4 interfaces) – (# of RRP interfaces with fast timers (200ms) - v/IPv6 /R Virtual IP interfaces CMP groups/paths per group	tion flag: VRRP IPv6 interfaces) - (# of RSMLT interface 24 501 with vIST 502 without vIST 500/4	es) – 2 (if IP Shortcuts is enabled) – 3 24 501 with vIST 502 without vIST 1,000/8	501 with vIST 502 without vIST 1,000/8
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f you enable the VRF scaling boot configura = 506 - (# of VRRP IPv4 interfaces) - (# of RRP interfaces with fast timers (200ms) - v4/IPv6 RV Virtual IP interfaces CMP groups/paths per group SPF v2/v3 interfaces SPF v2/v3 neighbors (adjacencies) SPF areas v4 ARP table	tion flag: VRRP IPv6 interfaces) - (# of RSMLT interface 24 501 with vIST 502 without vIST 500/4 100 12 for each VRF 64 for the switch	es) – 2 (if IP Shortcuts is enabled) – 3 24 501 with vIST 502 without vIST 1,000/8 500 12 for each VRF	501 with vIST 502 without vIST 1,000/8 500 500 12 for each VRF 80 for the switch
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Combination of VLANs + number of IPv4			
senders + IPv6 senders (non-SPBM mode)	4,059	8,192	8,192
Combination of Layer 2 VSNs + number of IPv4 senders + number of IPv6 senders (SPBM mode)	4,059	8,192	8,192
IGMP/MLD interfaces (IPv4/IPv6)	4,059	4,059	4,059
PIM interfaces (IPv4/IPv6)	128 Active	128 Active	128 Active
PIM Neighbors (IPv4/IPv6) (GRT Only)	128	128	128
PIM-SSM static channels (IPv4/IPv6)	512	4,000	4,000
Multicast receivers/IGMP joins (IPv4/IPv6) (per switch)	1,000	6,000	6,000
Total multicast routes (S,G,V) (IPv4/IPv6) (per switch)	1,000	6,000	6,000
Total multicast routes (S,G,V) (IPv4) on an SPB-PIM Gateway configured switch	1,000	3,000	3,000
Static multicast routes (S,G,V) (IPv4/IPv6)	512	4,000	4,000
Multicast enabled Layer 2 VSN (IPv4)	1,000	2,000	2,000
Multicast enabled Layer 3 VSN (IPv4)	128 including mgmt VRF and GRT	256 including mgmt VRF and GRT	256 including mgmt VRF and GRT
SPB-PIM Gateway controller S,Gs (source announcements) with MSDP (IPv4)	6,000	6,000	6,000
SPB-PIM Gateway controllers per SPB fabric (IPv4)	5	5	5
SPB-PIM Gateway nodes per SPB fabric (IPv4)	64	64	64
SPB-PIM Gateway interfaces per BEB (IPv4)	64	64	64
PIM neighbors per SPB-PIM Gateway node (IPv4)	64	64	64
Distributed Virtual Routing (DvR)			
DvR Virtual IP interfaces	501 with vIST	501 with vIST	501 with vIST
	502 without vIST	502 without vIST	502 without vIST
DvR domains per SPB fabric	16	16	16
Controller nodes per DvR domain Leaf nodes per DvR domain	n/a 250	<u>8</u> 250	8 250
DvR enabled Layer 2 VSNs			
	501 with vIST 502 without vIST	501 with vIST 502 without vIST	501 with vIST 502 without vIST
DvR host route scaling	6,000	32,000	32,000
-Scaling of the VSP 4000 controls the scaling For example, if a VSP 4000 is in a DvR dom: VXLAN Gateway	scaling boot configuration flag if more than 24 VI g of the DvR domain it is in. ain with other platforms such as VSP 7200s and	RFs are required in the DvR domain. VSP 8000s, the scaling of the entire domain is lim	ited to the scaling of the VSP 4000.
MAC addresses in base interworking mode	n/a	112,000	112,000
MAC addresses in full interworking mode	n/a	74,000	74,000
VNI IDs per node	n/a	2,000	VSP 8404C = 4,000 Other VSP 8000 Series platforms = 2,000
VTEP destinations per node or VTEP	n/a	500	500
Filters, QoS & Security	· • • •		
Total IPv4 Ingress rules/ACEs (Port/VLAN based, Security/QoS filters)	1,020	766	VSP 8404C = 3,070 Other VSP 8000 Series platforms = 766
Total IPv4 Egress rules/ACEs (Port based, Security filters)	255	252	VSP 8404 and 8404C = 251 Other VSP 8000 Series platforms = 252
Total IPv6 Ingress rules/ACEs (Port/VLAN based, Security/QoS filters)	255	256	VSP 8404 = 511 VSP 8404C = 2,047
For more information on filter scaling, see	Filter Scaling		Other VSP 8000 Series platforms = 256
EAPoL 802.1x (clients per port)	32	32	32
,	52	52	
OAM & Diagnostics FTP sessions (IPv4/IPv6)	A	4	
Riogin sessions (IPv4/IPv6)	4 8	4 8	4 8
SSH sessions (IPv4/IPv6)	8 total (any combination of IPv4 and IPv6)	8 total (any combination of IPv4 and IPv6)	8 total (any combination of IPv4 and IPv6)
Telnet sessions (IPv4/IPv6) Mirrored ports	8 49	8 53 (up to 71 with channelization)	8 83 (up to 95 with channelization)
Fabric RSPAN Port mirror instances per switch (Ingress only)	Port mirror sessions can be mapped to 24 unique I-SID offsets for Ingress Mirror. Only one I-SID offset for Egress Mirror.	Port mirror sessions can be mapped to 24 unique I-SID offsets for Ingress Mirror. Only one I SID offset for Egress Mirror.	Port mirror sessions can be mapped to 24 unique I-SID offsets for Ingress Mirror. Only one I-SID offset for Egress Mirror.
Fabric RSPAN Flow mirror instances per switch (Ingress only)	Filter ACL ACE sessions can be mapped to only 1 mirror I-SID offset.	Filter ACL ACE sessions can be mapped to 24 unique I-SID offsets.	Filter ACL ACE sessions can be mapped to 24 unique I- SID offsets.
Fabric RSPAN Monitoring I-SIDs (network value)	1,000 Monitoring I-SIDs across SPB network	1000 Monitoring I-SIDs across SPB network	1,000 Monitoring I-SIDs across SPB network
sFlow sampling limit	100 samples per second	3,000 samples per second	3,000 samples per second

VRF scaling note By default, the system reserves VLAN IDs 4060 to 4094 for internal use. If you enable both the VRF scaling and the SPBM mode boot configuration flags, the system reserves additional VLAN IDs (3500 to 3998) for internal use. By default, VRF scaling is disabled and SPBM mode is enabled.

Chapter 9: Fabric scaling capabilities

This section lists the fabric scaling information.

	VSP 4	000 Series	VSP 720	0 Series	VSP 800	00 Series
	101 4		101 / 20	vIST not	101 000	vIST not
Attribute	vIST configured	vIST not configured	vIST configured	configured	vIST configured	configured
Number of SPB regions	1	1	1	1	1	1
Number of B-VIDs	2	2	2	2	2	2
Maximum number of Physical and Logical (Fabric	VSP 4450 = 255	VSP 4450 = 255				
Extend) NNI interfaces/adjacencies	VSP 4850 = 24	VSP 4850 = 24	255	255	255	255
SPBM enabled nodes per region (BEB + BCB)	550	550	800	800	800	800
Number of BEBs this node can share services with						
(Layer 2 VSNs, Layer 3 VSNs, E-Tree, Multicast,						
Transparent Port UNI).						
vIST clusters are counted as 3 nodes. Each Fabric						
Extend IS-IS adjacency or VXLAN remote VTEP						
reduces this number by 1.	500	500	500	500	500	500
Maximum number of vIST/IST clusters this node						
can share I-SIDs with	500	500	330	330	330	330
Layer 2 MAC table size (with SPBM)	16,000	16,000	112,000	112,000	112,000	112,000
I-SIDs supported	See Number of I-	See Number of I-SIDs	See Number of I-	See Number of I-	See Number of I-	See Number of I-
	SIDs supported	supported	SIDs supported	SIDs supported	SIDs supported	SIDs supported
Maximum number of Layer 2 VSNs per switch	1,000	1,000	4,059	4,059	4,059	4,059
Maximum number of Switched UNI I-SIDs per	See Number of I-	See Number of I-SIDs	See Number of I-	See Number of I-	See Number of I-	See Number of I-
switch	SIDs supported	supported	SIDs supported	SIDs supported	SIDs supported	SIDs supported
Maximum number of Transparent Port UNIs per	48	48	54 (up to 72 with	54 (up to 72 with	84 (up to 96 with	84 (up to 96 with
switch			channelization)	channelization)	channelization)	channelization)
Maximum number of E-Tree PVLAN UNIs per						
switch	1,000	1,000	4,059	4,059	4,059	4,059
Maximum number of Layer 3 VSNs per switch						
	128 including mgmt	128 including mgmt			256 including mgmt	256 including mgmt
	VRF and GRT	VRF and GRT	VRF and GRT	VRF and GRT	VRF and GRT	VRF and GRT
See VRF scaling note						
Maximum number of SPB Layer 2 multicast	See Number of I-	See Number of I-SIDs	See Number of I-	See Number of I-	See Number of I-	See Number of I-
UNI I-SIDs	SIDs supported	supported	SIDs supported	SIDs supported	SIDs supported	SIDs supported
Maximum number of SPB Layer 3 multicast	Maximum 1,000 for a	BEB: Due to internal	Maximum 6,000 for a	a BEB: Due to	Maximum 6,000 for a	a BEB: Due to internal
UNI I-SIDs	resource sharing IP M	/ulticast scaling	internal resource sha	aring IP Multicast	resource sharing IP I	Multicast scaling
	depends on network		scaling depends on i		depends on network	
		ning when 85 and 90%	Switch will issue war		Switch will issue war	
	of available resources are reached. 90% of available resources are reached. 90% of available resources are reached.					
Maximum number of FA ISID/VLAN assignments	01	01	01	94	01	04
per port Maximum number of IP multicast S.Gs when	94	94	94	94	94	94
	4 000	4 000	40.000	40.000	40.000	40,000
operating as a BCB	1,000	1,000	16,000	16,000	16,000	16,000

Number of I-SIDs supported for the number of configured IS-IS interfaces and adjacencies (NNIs)

The number of I-SIDs supported depends on the number of IS-IS interfaces and adjacencies (NNIs) configured.

The following table shows the number of UNI I-SIDs supported per BEB. UNI I-SIDs are used for Layer 2 VSN, Layer 3 VSN, Transparent-UNI, E-Tree, Switched-UNI and S, G for Multicast.

	VSP 40	VSP 4000 Series		VSP 7200 Series		0 Series
	I-SIDs with vIST	I-SIDs without vIST	I-SIDs with vIST	I-SIDs without	I-SIDs with vIST	I-SIDs without vIST
	configured on the	configured on the	configured on the	vIST configured	configured on the	configured on the
Number of IS-IS interfaces (NNIs)	platform	platform	platform	on the platform	platform	platform
4	1,000	1,000	4,000	4,000	4,000	4,000
6	1,000	1,000	3,500	4,000	3,500	4,000
10	650	1,000	2,900	4,000	2,900	4,000
20	350	700	2,000	4,000	2,000	4,000
48	n/a	n/a	1,000	2,000	1,000	2,000
72	n/a	n/a	750	1,500	750	1,500
100	n/a	n/a	550	1,100	550	1,100
128	n/a	n/a	450	900	450	900
250	n/a	n/a	240	480	240	480

Recommendations

This section provides recommendations that affect feature configuration.

Pay special attention to the expected scaling of routes in the network and the number of OSPF neighbors in a single VRF when you select configuration values for the **isis I1-hellointerval** and **isis I1-hello-multiplier** commands on IS-IS interfaces. The default values for these commands work well for most networks, including those using moderately-scaled routes.

VSP 7200 and VSP 8000 Series

The default values work well for 16,000 routes and 64 OSPF neighbors in a single VRF. However, in highly-scaled networks, you may need to configure higher values for these commands.

For example, if the total number of non IS-IS routes on a given BEB exceeds 16,000 in combination with approximately 128 OSPF neighbors in a single VRF, you should configure a value of 12 for isis I1-hellomultiplier, instead of using the default value of 3.

VSP 4000 Series

z

If the total number of non IS-IS routes on a given BEB exceeds 25,000 in combination with approximately 60,000 IS-IS routes that the BEB receives from other BEBs in the network, you should configure a value of 12 for **isis 11-hellomultiplier**, instead of using the default value of 3

Interoperability considerations for IS-IS external metric

BEBs running VOSS 5.0 can advertise routes into IS-IS with the metric type as external. They can also correctly interpret route advertisements with metric type external received via IS-IS. In an SPB network with a mix of products running different versions of software releases, you must take care to ensure that turning on the ability to use metric-type external does not cause unintended loss of connectivity.

Note the following before turning on IS-IS external metric if the SPB network has switches running a release prior to VOSS 5.0: - There are no special release or product type implications if the switch does not have IP Shortcuts or Layer 3 VSN enabled. For example, this applies to Layer 2 only BEBs and BCBs.

- There are no special release or product type implications if the Layer 3 VSN in which routes are being advertised with a metric-type of external is not configured on the switch.

- If a switch running a VOSS release that is prior to VOSS 5.0 but VOSS 4.2.1 or later, it will treat all IS-IS routes as having metric-type internal, regardless of the metric-type (internal or external) used by the advertising BEB in its route advertisement.

- Switches running VSP 9000 release 4.1.0.0 or later will treat all IS-IS routes as having metric-type internal, regardless of the metric-type (internal or external) used by the advertising BEB in its route advertisement.

- Switches running VOSS releases prior to 4.2.1.0 may not correctly install IS-IS routes in a Layer 3 VSN if any routes advertised with metrictype external are advertised in that Layer 3 VSN by other BEBs in the network. Layer 3 VSNs in which there are no routes with an external metric-type will not be impacted. Similar note applies to the GRT.

- Switches running VSP 9000 releases prior to 4.1.0.0 may not correctly install IS-IS routes in a Layer 3 VSN if any routes advertised with metric-type external are advertised in that Layer 3 VSN by other BEBs in the network. Layer 3 VSNs in which there are no routes with an external metric-type will not be impacted. Similar note applies to GRT.

- Switches running any ERS 8800 release may not correctly install IS-IS routes in a Layer 3 VSN if any routes advertised with metric-type external are advertised in that Layer 3 VSN by other BEBs in the network. Layer 3 VSNs in which there are no routes with an external metric-type will not be impacted. Similar note applies to GRT.

Chapter 10: Route scaling capabilities

The following table provides information on IPv4 and IPv6 route scaling.

The route scaling does not depend on the protocol itself, but rather the general system limitation in the following configuration modes:

- URPF check mode - Enable this boot configuration flag to support Unicast Reverse Path Forwarding check mode.

- IPv6 mode - Enable this boot configuration flag to support IPv6 routes with prefix-lengths greater than 64 bits. When the IPv6-mode is enabled, the maximum number of IPv4 routing table entries decreases. This flag does not apply to all hardware platforms.

		VSP 4000 Series			VSP 7200	Series and VSP 80	000 Series
URPF	IPv6		IP	v6		IP	/ 6
mode	mode	IPv4	Prefix less than	Prefix greater	IPv4	Prefix less than	Prefix greater
moue	moue		64	than 64		64	than 64
No	No	15,744	7,887	256	15,488	7,744	n/a
No	Yes	n/a	n/a	n/a	7,488	3,744	2,000
Yes	No	7,744	3,872	256	7,488	3,744	n/a
Yes	Yes	n/a	n/a	n/a	3,488	1,744	1,000

Chapter 11: Filter scaling capabilities

This section provides filter scaling numbers for the following platforms: <u>Filter scaling for VSP 4000 Series</u> <u>Filter scaling for VSP 7200 Series and VSP 8000 Series</u> <u>Filter scaling for the VSP 8404C</u>

Filter scaling for the VSP 4000 Series

This section provides more details on filter scaling numbers for the VSP 4000 Series.

The switch supports the following maximum limits:

- 220 IPv4 ingress ACLs
- 50 IPv4 egress ACLs
- 128 IPv6 ingress ACLs
- 1.020 IPv4 ingress ACEs
- 255 IPv4 egress ACEs
- 255 IPv6 ingress ACEs

Filter scaling for the VSP 7200 Series and VSP 8000 Series

This section provides more details on filter scaling numbers for the VSP 7200 Series and VSP 8000 Series.

The switch supports the following maximum limits:

- 256 ingress ACLs (see Note 1)
- 126 egress ACLs (see Note 2)
- 766 ingress ACEs (see Note 3)
- 252 egress ACEs (see Note 4)

Note 1: Regarding ingress ACLs (inPort or inVlan), the switch supports:

- 256 ACLs with 1 security ACE each, or
- 128 ACLs with 1 QoS ACE each, or
- a combination based on this rule:

((num ACLs + num security ACEs) <= 512) && ((num ACLs + num QoS ACEs) <= 256)

This maximum implies a VLAN member count of 1 for inVlan ACLs

Note 2: Regarding egress ACLs (outPort only), the switch supports: - 126 ACLs with 1 security ACE each (one of these ACLs can have 2 ACEs)

This maximum implies a port member count of 1 for outPort ACLs.

Note 3: Theoretical maximum of 766 implies 1 ingress ACL with 511 security ACEs and 255 QoS ACEs. - Ingress ACEs supported: (512 (security) - # of ACLs) + (256(QoS) - # of ACLs). This maximum also implies a VLAN member count of 1 for an inVlan ACL.

Note 4: Theoretical maximum of 252 implies 1 egress ACL with 252 security ACEs. - Egress ACEs supported: 253 - # of ACLs. This maximum also implies a port member count of 1 for the outPort ACL.

Filter scaling for the VSP 8404C

This section provides more details on filter scaling numbers for the VSP 8404C.

The switch supports a maximum 3070 non-IPv6 ingress ACEs, 2047 IPv6 ingress ACEs, and 251 non-IPv6 egress ACEs.

IPv6 ingress QoS ACL/Filters and IPv6 egress security with QoS ACL/Filters are not supported. If you disable an ACL, the ACL state affects the administrative state of all of the ACEs within it.

ACL scaling

The switch supports the following maximum limits:

- 1024 non-IPv6 ingress ACLs (see Note 1)
- 1024 IPv6 ingress ACLs (see Note 2)
- 126 non-IPv6 egress ACLs (see Note 3)

Note 1: For 1024 non-IPv6 ingress ACLs (inPort or inVlan), the maximum is:

- 1024 ACLs with 1 security ACE each OR
- a combination based on the following rule:
- num of ACLs <= 1024 AND (num of ACLs + Security ACEs) <= 2048 AND (num of ACLs + QoS ACEs) <= 1024

This maximum implies a VLAN member count of 1 for inVlan ACLs.

Note 2: For 1024 IPv6 ingress ACLs (inPort), the maximum is:

 1024 IPv6 ACLs with 1 security ACE each OR
 a combination based on the following rule: num of IPv6 ACLs <= 1024 AND (num of IPv6 ACLs + Security ACEs) <= 2048

Note 3: For 126 non-IPv6 egress ACLs (outPort), the maximum is:

- 126 ACLs with 1 Security ACE each OR
- a combination based on the following rule: num ACLs <= 126 AND (num ACLs + num security ACEs) <= 252

This maximum implies a port member counter of 1 for outPort ACLs.

ACE scaling

The switch supports the following maximum limits:

- 3070 non-IPv6 ingress ACEs (see Note 4)
- 2047 IPv6 ingress ACEs (see Note 5)
- 251 non-IPv6 egress ACEs (see Note 6)

Note 4: For 3070 non-IPv6 ingress ACEs, the theoretical maximum implies the following configuration:

- \bullet 1 non-IPv6 ingress ACL with 2047 security ACEs and 1023 QoS ACEs.
- a VLAN member count of 1 for inVlan ACLs
- Non-IPv6 Ingress ACEs supported: [2048(security) - (num of ACLs)] + [1024(QoS) - (num of ACLs)]

Note 5: For 2047 IPv6 ingress ACEs, the theoretical maximum implies the following configuration:

- 1 IPv6 ingress ACL with 2047 security ACEs
- IPv6 Ingress ACEs supported: [2048(security) - (num of ACLs)]

Note 6: For 251 non-IPv6 egress ACEs, the theoretical maximum implies the following configuration:

- 1 egress ACL with 251 security ACEs
- a port member count of 1 for outPort ACLs
- Non IPv6 egress ACEs supported: 252 - (num egress ACLs)

Chapter 12: Known issues

Issue number	Description	Workaround
VOSS-1265	On the port that is removed from a T-UNI LACP MLT, non T-UNI configuration	workaround When a port is removed from a T-UNI LACP MLT, the LACP key of the port must be set
	is blocked as a result of T-UNI consistency checks.	to default.
VOSS-1278	SLA Mon tests fail (between 2% and 8% failure) between devices when you have too many agents involved with scaled configurations.	This happens only in a scaled scenario with more than seven agents, otherwise the failure does not occur. The acceptable failure percentage is 5%, but you may see failure of up to 8%.
VOSS-1279 VOSS-1280	The command sys shutdown does not change the STATUS LED. The following error message occurs when performing shutdown/no-shutdown	None. This issue does not impact any functionality. None. When this issue occurs, the port in question can go down, then performs a
V033-1260	commands continuously:	shutdown/no-shutdown of the port to bring it up and resumes operation.
	IO1 [05/02/14 06:59:55.178:UTC] 0x0011c525 00000000 GlobalRouter COP-SW ERROR vsp4KTXEnable Error changing TX	
VOSS-1284	disable for SFP module: 24, code: -8 On a fresh boot, peer ports connected to ports 1/49 and 1/50 bounce and can	None.
	cause additional transitions in the network.	
VOSS-1285	CAKs are not cleared after setting the device to factory-default.	None. Currently this is the default behavior and does not affect functionality of the MACsec feature.
VOSS-1287	A reboot with verbose configuration does not allow you to delete a VRF.	This issue occurs only if you save the configuration file in verbose mode and reboot the switch in that configuration. This situation is unlikely to exist, verbose mode is used more as a diagnostic tool. This issue does not impact functionality.
VOSS-1288	Shutting down the T1 link from one end of the link does not shut down the link a the remote end. You may experience traffic loss if the remote side of the link is not shut down.	This issue occurs only when a T1 SFP link from one end is shutdown. Enable a dynamic link layer protocol such as LACP or VLACP on both ends to shut the remote end down too. As an alternative, administratively disable both ends of the T1 SFP link to avoid the impact.
VOSS-1289	On a MACsec enabled port, you can see delayed packets when the MACsec port is kept running for more than 12 hours. This delayed packet counter can also increment when there is complete reordering of packets so that the application might receive a slow response. But in this second case, it is a marginal increase in the packet count, which occurs due to PN mismatch sometimes only during Key expiry, and does not induce any latency.	None.
VOSS-1309	You cannot use EDM to issue ping or traceroute commands for IPv6 addresses	Use CLI to initiate ping and traceroute.
VOSS-1310	You cannot use EDM to issue ping or traceroute commands for IPv4 addresses	Use CLI to initiate ping and traceroute.
VOSS-1312	On the 40-gigabit ports, the small metallic fingers that surround the ports are	Insert the QSFP+ carefully. If the port gets damaged, it needs to be repaired.
1000 1012	Fragile and and bend out of shape during removal and insertion of the transceivers. When the fingers are bent, they prevent the insertion of the QSFP+ transceiver.	
VOSS-1335	In an IGMP snoop environment, after dynamically downgrading the IGMP version to version 2 (v2), when you revert back to version 3 (v3), the following i	Use a v3 interface as querier in a LAN segment that has snoop-enabled v2 and v3 interfaces.
	observed: - The multicast traffic does not flow. - The sender entries are not learned on the local sender switch. - The Indiscard packet count gets incremented on theshow int gig error	
VOSS-1340	statistics command. From EDM, you cannot perform a Layer 2 IP ping for an IPv6 address. EDM displays the following error: No next Hop address found for ip address provided	Use the CLI to perform a Layer 2 IP ping.
VOSS-1344	In EDM, you cannot select multiple 40 gigabit ports or a range of ports that includes 40 gigabit ports to graph or edit. You need to select them and edit ther individually.	None.
VOSS-1348	In the COM EDM Plugin command, the Layer 2 Traceroute IPv6 does not work	Use the CLI to initiate the Layer 2 Traceroute for IPv6.
VOSS-1349	properly and gives the error,No Such Name. On EDM, the port LED for channelized ports only shows the status of sub-port	None.
	#1, but not the rest of the sub-ports. When you remove sub-port #1, and at leas one other sub-port is active and online, the LED color changes to amber, when it should be green because at least one other sub-ports is active and online. Th LED only shows the status of sub-port #1.	t
VOSS-1354	An intermittent link-flap issue can occur in the following circumstance for the copper ports. If you use a crossover cable and disable auto-negotiation, the pol operates at 100 Mbps. A link flap issue can occur intermittently and link flap detect will shutdown the port.	Administratively shutdown, and then reenable the port. Use auto-negotiation. Disabling auto-negotiation on these ports is not a recommended configuration.
VOSS-1358	Traffic is forwarded to IGMP v2 SSM group, even after you delete the IGMP SSM-map entry for the group.	If you perform the delete action first, you can recreate the SSM-map record, and then disable the SSM-map record. The disabled SSM-map record causes the receiver to timeout because any subsequent membership reports that arrive and match the disabled SSM-map record are dropped. You can delete the SSM-map record after the receivers time out.
VOSS-1359	across a reboot. This problem occurs when 4 Byte AS is enabled with	Reconfigure the 4 byte AS confederation identifier and peers on the device, and reboot.
VOSS-1360	confederation. After you enable enhanced secure mode, and log in for the first time, the	None.
	system prompts you to enter a new password. If you do not meet the minimum password requirements, the following system output message appears: Password should contain a minimum of 2 upper and lowercase letters, 2 numbers and 2 special characters like !@#\$\$^*(). Password change aborted. Enter the New password: The system output message does not display the actual minimum password requirements you need to meet, which are configured on your system. The output message is an example of what the requirements may need to meet	
	The actual minimum password requirements you need to meet are configured on your system by the administrator.	
VOSS-1363	The switch provides an NTP log message that indicates that the NTP server dir not synchronize, even though one of the NTP servers synchronized correctly and the NTP stats show that it did.	
VOSS-1367	The router ospf entry always appears in the configuration file regardless of whether OSPF is configured. This line does not perform any configuration and has no impact on the running	None.
VOSS-1368	software. When you use Telnet or SSH to connect to the switch, it can take up to 60 seconds for the login prompt to appear. However, this situation is very unlikely happen, and it does not appear in a standard normal operational network.	Do not provision DNS servers on a switch to avoid this issue altogether.
VOSS-1370	If you configure egress mirroring on NNI ports, you do not see the MAC-in-MAC	Use an Rx mirror on the other end of the link to see the packets.
VOSS-1370 VOSS-1371	If you configure egress mirroring on NNI ports, you do not see the MAC-in-MAC header on captured packets. A large number of IPv6 VRRP VR instances on the same VLAN can cause high	
	header on captured packets.	
VOSS-1371	header on captured packets. A large number of IPv6 VRRP VR instances on the same VLAN can cause high CPU utilization. If you disable IPv6 on one RSMLT peer, the switch can intermittently display	Do not create more than 10 IPv6 VRRP VRs on a single VLAN.

VOSS-1402	You cannot use EDM to configure SSH rekey, or to enable or disable SFTP.	Use CLI to configure SSH rekey, and to enable or disable SFTP.
VOSS-1403	EDM displays the user name as Admin, even though you login using a differen	
	user name.	
VOSS-1404 VOSS-1406	You cannot use EDM to view the IPv6 DHCP relay counters. When you re-enable insecure protocols in the CLI SSH secure mode, the switc	Use CLI to view the IPv6 DHCP relay counters. None.
	does not display a warning message.	
VOSS-1418	EDM displays the IGMP group entry that is learned on a vIST MLT port as TX- NNI.	
VOSS-1428	When port-lock is enabled on the port and re-authentication on the EAP client fails, the port is removed from the RAIUS-assigned VLAN. This adds the port to the default VLAN and displays an error message. This issue has no impact.	
VOSS-1431	When IS-IS is disabled on one of the vIST peer nodes with RSMLT interfaces and it has ECMP routes with the RSMLT peer as the next hop, the ECMP routes that are being replaced during the transition of the IS-IS state now will have a next hop of the local interface. This results in an error messageOP-SW ERROR ercdProcIpRecMsg: Failed to Replace IP Records.	Enable IS-IS on both vIST peers.
VOSS-1433	When you manually enable or disable IS-IS on 40 Gbps ports with CR4 direct	Configure IS-IS during the maintenance period. Bring the port down, configure the port
VOSS-1438	attach cables (DAC), the port bounces once. In a rare scenario in Simplified vIST configuration when vIST state is toggled immediately followed by vIST MLT ports are toggled, one of the MLT ports will go into blocking state resulting in failure to process data packets hashing to the link.	
VOSS-1440 VOSS-1441	When you configure a scaled Layer 3 VSN (24 Layer 3 VSN instances), route leaking from GRT to VRF on the local DUT does not happen. The switch displays an incorrect error message:Dnly 24 L3 VSNs can be configured.	None.
VOSS-1459	When you use Fabric Extend over IP (FE-IP) and Fabric Extend over Layer 2	Do not change the default ingress and egress .1p maps when using Fabric Extend. With
VOSS-1463 VOSS-1471	may not follow correct internal QoS queues for FE tunnel to FE tunnel, or FE	default ingress and egress .1p maps, packets follow the correct internal QoS when usin the Fabric Extend feature.
VOSS-1470	tunnel to regular NNI traffic. You cannot use EDM to enable or disable ASG. You can only view ASG status	Use the CLI to enable or disable ASG.
VOSS-1473	If the I-SID associated with a Switched UNI or Fabric Attach port does not have	None.
	a platform VLAN association and you disable Layer 2 Trusted, then the non IP traffic coming from that port does not take the port QoS and still uses the .1p priority in the packet.	
VOSS-1530	If you improperly close an SSH session, the session structure information does not clear and the client can stop functioning.	Disable and enable SSH.
VOSS-1560	If you apply an ipv6-out-route-map on a BGP peer to filter a particular IPv6 prefix range with a match network condition, it does not filter the full prefix range.	Configure the incoming policy to filter incoming advertised routes on BGP+ peers.
VOSS-1584 VOSS-1585	The show debug-file all command is missing The system does not generate a log message, either in the log file or on screer	None. None.
VOSS-1585	When you run the flight-recorder command. If you use an ERS 4850 FA Proxy with a VOSS FA Server, a mismatch can	There is no functional impact.
	exist in the show output for tagged management traffic. The ERS device alway sends traffic as tagged. The VOSS FA Server can send both tagged and untagged. For untagged, the VOSS FA Server sends VLAN ID 4095 in the management VLAN field of the FA element TLV. The ERS device does not recognize this VLAN ID and so still reports the traffic as tagged.	
VOSS-1706	EAPOL: Untagged traffic is not honoring the port QOS for Layer 2 trusted/ Layer 3 untrusted. This issue is only seen on EAPOL enabled ports.	None.
/OSS-2014	IPV6 MLD Group is learned for Link-Local Scope Multicast Addresses. This displays additional entries in the Multicast	None.
VOSS-2033	routing tables. The following error messages appear when you use th eshutdown and no	Disable the alternate path.
	shutdowncommands on the MLT interface with ECMP and BGP+ enabled: Cpl [01/23/16 11:10:16.474:UTC] 0x00108628 00000000 GlobalRouter RCIP6 ERROR rcIpReplaceRouteNotifyIpv6:FAIL ReplaceTunnelRec conn_id 2 Cpl [12/09/15 12:27:02.203:UTC] 0x00108649 00000000 GlobalRouter RCIP6 ERROR ifyRpcOutbelPibEntry: del FIB of Ipv6Route failed with 0: ipv6addr: 20116:60410:0:0:0:0, mask: 96, nh: 0:0:0:0:0:0:0:0:0 dispressioner BGP	
V055-2036	Cp1 [12/09/15 12:20:30.302:UTC] 0x00108649 0000000 GlobalRouter RCIP6 ERROR ifyRpcOutDelFibEntry: del FIB of Ipv6Route failed with 0: ipv6addr: 210:6:782:0:0:0:0.0, mask: 96, nh: fe80:0:0:0:0:b2ad:aaff:fe55:5088 cid 2361 owner OSPF	None
VOSS-2036	GlobalRouter RCIP6 ERROR ifyRpcOutDelFibEntry: del FIB of Ipv6Route failed with 0: ipv6addr: 210:6:782:0:0:0:0:0, mask: 96, nh: fe80:0:0:0:0:0:b2ad:aaff:fe55:5088 cid 2361 owner OSPF IPsec statistics for the management interface do not increment for inESPFailures or InAHFailures.	None.
VOSS-2036 VOSS-2117	GlobalRouter RCIP6 ERROR ifyRpcOutDelPibEntry: del FIB of Ipv6Route failed with 0: ipv6addr: 210:6:782:0:0:0:0:0, mask: 96, nh: fe80:0:0:0:b2ad:aaff:fe55:5088 cid 2361 owner OSPF ////////////////////////////////////	Disable and re-enable IGMP Snooping on the interface.
VOSS-2117	GlobalRouter RCIP6 ERROR ifyRpcOutDelPibEntry: del FIB of Ipv6Route failed with 0: ipv6addr: 20:6:782:0:0:0:0:0, mask: 96, nh: fe80:0:0:0:0:b2ad:aaff:fe55:5088 cid 2361 owner OSPF IPsec statistics for the management interface do not increment for inESPFailures or InAHFailures. If you configure static IGMP receivers on an IGMPv3 interface and a dynamic join and leave are received on that device from the same destination VLAN or egress point, the device stops forwarding traffic to the static receiver group afte the dynamic leave is processed on the device. The end result is that the IGMP static groups still exist on the device thut traffic is not forwarded. EAP Security and Authentication EDM tabs display additional information with	Disable and re-enable IGMP Snooping on the interface.
VOSS-2117 VOSS-2128 VOSS-2207	GlobalRouter RCIP6 ERROR ifyRpcOutDelPibEntry: del FIB of rpv6Route failed with 0: tpv6addr: 20:6:782:0:0:0:0:0, mask: 96, nh: fe80:0:0:0:0:b2ad:aaff:fe55:5088 cid 2361 owner OSPF ////////////////////////////////////	Disable and re-enable IGMP Snooping on the interface. There is no functional impact, Ignore the additional information in EDM, Use the CLI command show eapol port interface to see port status. None.
VOSS-2117 VOSS-2128 VOSS-2207 VOSS-2208	GlobalRouter RCIP6 ERROR ifyRpcOutDelPibEntry: del FIB of Ipv6Route failed with 0: ipv6addr: 20:6:782:0:0:0:0:0, mask: 96, nh: fe80:0:0:0:b2ad:aaff:fe55:5088 cid 2361 owner OSPF ////////////////////////////////////	Disable and re-enable IGMP Snooping on the interface. There is no functional impact. Ignore the additional information in EDM. Use the CLI command show eapol port interface to see port status. None.
VOSS-2117 VOSS-2128 VOSS-2207	GlobalRouter RCIP6 ERROR ifyRpcOutDelPibEntry: del PIB of rpv6Route failed with 0: tpv6addr: 20:6:782:0:0:0:0:0, mask: 96, nh: fe80:0:0:0:0:b2ad:aaff:fe55:5088 cid 2361 owner OSPF ////////////////////////////////////	Disable and re-enable IGMP Snooping on the interface. There is no functional impact. Ignore the additional information in EDM. Use the CLI command show eapol port interface to see port status. None. To get the list of all module IDs, type trace level , and then press Enter . Use the port default GoS configuration for the brouter port. The port default configuration is Layer 2 fursted and Layer 3 fursted, and under this configuration only the first scena
VOSS-2117 VOSS-2128 VOSS-2207 VOSS-2208 VOSS-2253	GlobalRouter RCIP6 ERROR if yRpcOutDelPibEntry: del FIB of Ipv6Route failed with 0: ipv6addr: 20:6:782:0:0:0:0:0, mask: 96, nh: fe80:0:0:0:0:b2ad:aaff:fe55:5088 cid 2361 owner OSPF ////////////////////////////////////	Disable and re-enable IGMP Snooping on the interface. There is no functional impact, Ignore the additional information in EDM. Use the CLI command show eapol port interface to see port status. None. To get the list of all module IDs, typetrace level, and then pressEnter. Use the port default QoS configuration for the brouter port. The port default configuration is Layer 2 trusted and Layer 3 trusted, and under this configuration, only the first scena in the list is still an issue. The other scenarios do not occur. There is no functional impact. Portshutdown and no shutdowncommands, which recovers the traffic, works even when the switch is in an error state.

VOSS-2333	Layer 2 ping to Virtual BMAC (VBMAC) fails, if the VBMAC is reachable via	None.
VOSS-2397	Layer 2 core. If you configure a channelized port in EDM by using the Configuration > Edit >	In the Device Physical View, right-click the port and use the General, IP, or IPv6 sub-
	Port > General or Configuration > Edit > Port > IPor IPv6 navigation paths, you can only see and configure the first sub-port.	menu to configure all sub-ports.
VOSS-2411	On a VSP 4450GSX-DC device, the https-port info is not displayed or saved into the config.	None.
VOSS-2415	There is no option in the Insert V3 Interface screen of EDM to insert a VRRPv3 interface for IPv6. The two check boxes in the screen are disabled.	There is no functional impact. EDM has two menus of IP and IPv6 and this functionality available there along with other features.
VOSS-2418	When you configure and enable the SLA Mon agent, the SLA Mon server is able to discover it but the agent registration on the switch does not occur.	None.
VOSS-2422	When a BGP Neighbor times out, the following error message occurs: CP1 [03/11/16 13:43:39.084:EST] 0x000b45f2 0000000 GlobalRouter SW ERROR ip_rtdeleteVrf: orec is NULL!	There is no functional impact. Ignore the error message.
VOSS-2859	You cannot modify the port membership on a protocol-based VLAN using EDN after it has been created.	Use CLI to provision the port membership on the protocol-based VLAN or delete the protocol-based VLAN, and then re-create it with the correct port member setting.
VOSS-3393	When the SLA Mon agent IP is created on a CLIP interface, the switch provide the CLIP-id as the agent MAC.	Use different clip-id's to differentiate the SLA Mon agents from the SLA Mon server.
VOSS-4255	If you run IP traceroute from one end host to another end host with a DvR Leaf in between, an intermediate hop will appear as not responding because the Le does not have an IP interface to respond. The IP traceroute to the end host wil still work.	
VOSS-4728	If you remove and recreate an IS-IS instance on an NNI port with autonegotiation enabled in addition to vIST and R/SMLT enabled, it is possible that the NNI port will briefly become operationally down but does recover quickly. This operational change can lead to a brief traffic loss and possible reconvergence if non-ISIS protocols like OSPF or BGP are also on the NNI port.	If you need to remove and recreate an IS-IS instance on an autonegotiation enabled Nh port that also has non-ISIS traffic, do so during a maintenance window to minimize possible impact to other non-ISIS traffic.
VOSS-4840	If you run the show fulltech command in an SSH session, do not disable SSH on the system. Doing so can block the SSH sessior	None.
VOSS-4912 VOSS-5130	The VSP 4000 does not advertise an LLDP Management TLV. Disabling and immediately enabling IS-IS results in the following log message:	None. There is no functional impact. Ignore the
	<pre>PLSBFIB ERROR: /vob/cb/md_protocols/plab/lib/ plsbFib.cpp(line 1558) unregisterLocalInfo() local entry does not exist. key(0xfda010000fffa40)</pre>	error message.
VOSS-5159 & VOSS-5160	If you use a CLIP address as the management IP address, the switch sends ou 127.1.0.1 as the source IP address in both SMTP packets and TACACS+ packets.	None.
VOSS-5173	A device on a DvR VLAN cannot authenticate using RADIUS if the RADIUS server is on a DvR VLAN on a DvR Leaf using an in-band management IP address.	Place the RADIUS server in a non-DvR VLAN off a DvR Leaf or DvR Controller.
VOSS-5197	A BGP peer-group is uniquely identified by its name and not by its index. It is possible that the index that is configured for a peer-group changes between system reboots; however this has no functional impact.	None.
VOSS-5331	When you enable FHS ND inspection on a VLAN, and an IPv6 interface exists on the same VLAN, the IPv6 host client does not receive a ping response from the VLAN.	None.
VOSS-5467	To a minimum structure a pung response to the term of the CPU structure approximate the If a Minim Unicast packet (destined to a virtual BMAC) is sent over an FE tunne to a vIST paired BEB, and that destination BEB has not yet learned the customer destination MAC, then the flooded packet is not received by its vIST peer.	Ensure that you flush the customer MAC addresses in the particular VLAN or I-SID on both the vIST peer BEBs on which the FE tunnel is terminated.
VOSS-5603		domain. #.
VOSS-5627	The system does not currently restrict the number of VLANs on which you can simultaneously configure NLB and Directed Broadcast, resulting in resource hogging.	Ensure that you configure NLB and Directed Broadcast on not more that 100 VLANs simultaneously, assuming one NLB cluster for each VLAN. Also, ensure that you configure NLB on a VLAN first, and then Directed Broadcast, so a to not exhaust the NLB and Directed Broadcast shared resources. The shared resource are NLB interfaces and VLANs with Directed Broadcast enabled. The permissible limit for the shared resource is 000.
VOSS-5650		for the shared resources is 200. None.
VOSS-5982	address and not per interface. When using Microsoft Edge to login to EDM, the first attempt fails if you use	Use https, another browser (Firefox or Internet Explorer), or login a second time.
VOSS-6189	http. When you connect to EDM using HTTPS in Microsoft Edge or Mozilla FireFox, the configured values for the RADIUS KeepAliveTimer and CFM SBM MepId d not appear.	Use Internet Explorer when using an HTTPS connection.
VOSS-6822	If the IPsec/IKE software used in the Radius server side is strongSwan, there is a compatibility issue between VOSS and strongSwan in terms of IPv6 Digicert (IKEv1/v2) authentication.	
VOSS-6928	On VSP 8000 Series platforms IPv4 Filters with redirect next hop action is not forwarding when a default route is not present or a VLAN common to ingress	Configure a default route if possible.
VOSS-6959	VLAN of the filtered packet is not present. On VSP 4000 platforms, if you configure an ACL withdefault-action deny and control-packet-action deny, it causes all packets to be	Do not configure the ACL control-packet-action deny option on VSP 4000 platforms.
	dropped including packets matching ACEs with permit action. SMLT MACs are not synced correctly when you create a new VLAN on one of	After you create a VLAN, enter the following command:vlan mac-address-entry <vlan< td=""></vlan<>
VOSS-7006 VOSS-7058	the vIST peers. Redirect to the next-hop ACL takes longer than expected to become active after	Id> re-sync Configure a dummy static route pointing to the next-hop.
VOSS-7139	a link down/link up scenario. DHCPv6 Snooping is not working in an SPB network as the DHCPv6 Snooping	
VOSS-7139	entries are not being displayed. After EAP is globally enabled, RADIUS Reachability is triggered. It will take a	If this situation occurs, for NEAP authentication to work properly, MAC should be aged
VUSS-7390	After EAP is globally setabled, NADIOS Recentationity is utgetted, it will take a few seconds until RADIUS Response packet is received and RADIUS Server is declared reachable. NEAP authentication will not be possible in this very short period of time, as RADIUS Server reachability is not known.	and learned again. Any of the following commands should be used: - clear mac-address-table port 1/1 address <mac-addr> - vlan action <vlan-id> flush - vlan mac-address-entry <vlan-id> flush</vlan-id></vlan-id></mac-addr>
VOSS-7439	When the RADIUS server changes the reachability state, no log message is	None.
VOSS-7443	generated. The switch sends a trap. You may detect MHMV ports in the NULL VLAN.	Manually change the VLAN membership.
VOSS-7445	If global EAPOL is disabled while NEAP clients are authenticated, error message "CP1 [06/26/17 11:36:57,998:UTC] 0x000e8590 00000000 GlobalRouter EAP ERROR Unable to restore port 1/4 to v1an 1" will indicate that VLAN membership or default-vlan-id has been affected.	Manually configure VLAN membership of default-vlan-id.
VOSS-7457	The switch can experience an intermittent traffic loss after you disable a Fabric Extend tunnel.	Bounce the tunnel between the devices.

VOSS-7471	EDM does not provide a menu for valid TCP flag options when configuring an	Use CLI, which shows the valid TCP flag options.
	ACL/ACE filter. You cannot see what flags are supported for eq and mask.	
	5 II I	
VOSS-7472	EDM shows incorrect guidance for ACL TCP flag mask. EDM reports 063 as	Use CLI to see the correct unit values.
	hexadecimal. CLI correctly shows <0-0x3F 0-63> Mask value <hex td="" <=""><td></td></hex>	
	Decimal>. This is a display issue only with no functional impact.	
VOSS-7495	The VSP 4000 CLI Help text shows an incorrect port forboot config flags	None
	linerate-directed-broadcast The Help text shows 1/48. The correct port is	
	1/46.	
VOSS-7504	A port is not removed from a RADIUS assigned VLAN (RAV) when you disable	
	EAP (RAV and egress attribute are returned by the RADIUS server). VLAN	Add the port to the RAV, and then remove it.
	membership is not restored but traffic is still blocked for unauthenticated clients	
	so there is no functional impact. This issue is observed when both the RAV and	
	egress VLAN attributes are received with the same value from the RADIUS	
	server.	
VOSS-7520	The switch can experience an intermittent traffic loss where an autolearned	Clear the MAC address that lost connectivity.
	client behind an authenticated client (EAP/NEAP) will have its traffic filtered.	
	This issues occurs if the following conditions are met:	
	-NEAP authentication configured.	
	- one MAC to learn before the main MHSA client so a NEAP RADIUS	
	authentication must be tried.	
	- RADIUS response for the main client to be received before the other one,	
wi01208650	even if it is learned later. The console gets disconnected frequently when you enable screen trace. The	Nees
WI01200030	error displayed is	None.
	Forced log-out after 65535 secs	
wi01217871	If you attach the QSFP+ end of a passive breakout cable to a VSP 4000 or	None
WI01217071	VSP 7200 Series or VSP 8000 Series switch, and the SFP+ ends of the cable	None.
	to a VSP 9000 running Release 4.0.1, the output for the show pluggable-optica	-
	modules basic command on the VSP 9000 shows an incorrect vendor name	-
	and part number. The incorrect information also appears in EDM under the Edit	
	> Port > General menu path.	
-	HTTPS connection fails for CA-signed certificate with certificate inadequate	Ensure End-Entity, Intermediate CA and Root CA certificates are all SHA256 based and
	type error on FF.	RSA2048 key signed, and Extended key usage field is set to TLS webserver Auth only
	// ·	for subject and root.
		For intermediate, it must be set with other required bits to avoid this issue.
		Add the root, intermediate CAs in the trust store of the browser for accessing the EDM
		with HTTPS.
	VRF provisioning is restricted to 127 VRFs on VSP 4000.	None

Chapter 13: Limitations and expected behaviors

This section lists known limitations and expected behaviors that may first appear to be issues. Limitations for VSP 4450GTX-HT-PWR+ General limitations and expected behaviors

SSH connections SSL certificates Fabric Extend IP over ELAN/VPLS Redirect next-hop filter limitations Filter limitations

Limitations for VSP 4450GTX-HT-PWR+

Caution: The VSP 4450GTX-HT-PWR+ has operating temperature and power limitations. For safety and optimal operation of the device, ensure that the prescribed thresholds are strictly adhered to.

The following table provides a description of the limitation or behavior and the work around, if one exists.

Behavior	Description	Workaround
For high-temperature	The VSP 4450GTX-HT-PWR + supports a temperature range of	To prevent equipment damage, ensure that the
threshold	0°C to 70°C.	operating temperature is within the supported
	In the alpha release, power supply does not shut down at an	temperature range of 0°C to 70°C.
	intended over-temperature threshold of 79°C.	
For power supply	Software functionality to reduce the POE power budget based	Ensure that the POE device power draw is maintained
wattage threshold	on the number of operational power supplies and operating	at the following when the device is at temperatures
	temperature is not available in the Alpha SW image.	between 61°C and 70°C:
		 400W — with 1 operational power supply
		 832W — with 2 operational power supplies
For inoperable	The VSP 4450GTX-HT-PWR+ has an empty external USB	No workarounds are provided with the alpha image.
external USB	receptacle that was not available in GTS models. Software to	
receptacle	support the use of the external USB receptacle is not yet	
	available in the Alpha SW image.	
	Therefore the USB port is inoperable.	

General limitations and expected behaviors

The following table provides a description of the limitation or behavior.

VOSS-7		
-		Disable LLDP on the interface first, and then disable
E	ven when you change the LLDP mode of an interface from	CDP and re-enable LLDP.
CI	DP to LLDP, if the remote side sends CDP packets, the switch	
ac	ccepts them and refreshes the existing CDP neighbor entry.	
VOSS-687 EI	DM and CLI show different local preference values for a BGP	None.
IP	Pv6 route.	
E	DM displays path attributes as received and stored in the BGP	
su	ubsystem. If the attribute is from an eBGP peer, the local	
pr	reference appears as zero.	
CI	LI displays path attributes associated with the route entry,	
wt	hich can be modified by a policy. If a route policy is not	
co	onfigured, the	
loc	cal preference shows the default value of 100.	
	fter you log in to EDM, if you try to refresh the page by clicking n the refresh button in the browser toolbar, it will redirect to a	To refresh the page and avoid this issue, use the EDM refresh button instead of the browser refresh button.
bla	ank page. This issue happens only for the very first attempt	If you do encounter this issue, place your cursor in the
ar	nd only in Firefox.	address bar of the browser, and press Enter. This will
		return you to the EDM home page.
		There is no functional impact due to this configuration
		and it only leads to an unnecessary configuration step.
		No workaround required.
	arameters to set this option; however, these values are not	
	sed for actual IPsec processing as it is a NULL encryption	
	ption. The NULL option is required to interoperate with other	
	endors whose IPsec solution only supports that mode for	
er	ncryption.	
VOSS-2185 M	AC move of the client to the new port does not automatically	As a workaround, do one of the following:
	appen when you move a Non-EAP client authenticated on a	- Clear the non-EAP session on the port that the client
	pecific port to another EAPoL or Non-EAP enabled port.	is first authenticated on, before you move the client to
54		another port.
		- Create a VLAN on the switch with the same VLAN ID
		as that dynamically assigned by the RADIUS server
		during client authentication. Use the command vlan
		create <2-4059> type port-mstprstp <0-63>. Ensure
		that the new port is a member of this VLAN.

wi01068569	The system displays a warning message that routes will not inject until the apply command is issued after the enable command. The warning applies only after you enable redistribution, and not after you disable redistribution. For example: Switch:1(config) #isis apply redistribute direct vrf 2	n/a	
wi01112491	IS-IS enabled ports cannot be added to an MLT. The current	n/a	
wi01122478	release does not support this configuration. Stale SNMP server community entries for different VRFs	n/a	
WIGT 122470	appear after rebot with no VRFs. On a node with a valid configuration file saved with more than the default vrf0, SNMP community entries for that VRF are created and maintained in a separate text file, snmp_comm.txt, on every boot. The node reads this file and updates the SNMP communities available on the node. As a result, if you boot a configuration that has no VRFs, you may still see SNMP community entries for VRFs other than the globalRouter vrf0.		
wi01137195	A static multicast group cannot be configured on a Layer 2 VLAN before enabling IGMP snooping on the VLAN. After IGMP snooping is enabled on the Layer 2 VLAN for the first time, static multicast group configuration is allowed, even when IGMP snooping is disabled later on that Layer 2 VLAN.		
wi01138851	Configuring and retrieving licenses using EDM is not supported.	d. n/a	
wi01141638	When a VLAN with 1000 multicast senders is deleted, the console or Telnet session stops responding and SNMP requests time out for up to 2 minutes.	n/a	
wi01142142	When a multicast sender moves from one port to another within the same BEB or from one vIST peer BEB to another, with the old port operationally up, the source port information in the output of the show ip igmp sender command is not updated with new sender port information.	You can perform one of the following workarounds: - On an IGMP snoop-enabled interface, you can flush IGMP sender records. CAUTION: Flushing sender records can cause a transient traffic loss. - On an IGMP-enabled Layer 3 interface, you can toggle the IGMP state. CAUTION: Expect traffic loss until IGMP records are built after toggling the IGMP state.	
wi01145099	IP multicast packets with a time-to-live (TTL) equal to 1 are not switched across the SPB cloud over a Layer 2 VSN. They are dropped by the ingress BEB.	To prevent IP multicast packets from being dropped, configure multicast senders to send traffic with TTL greater than 1.	
wi01159075	VSP 4450GSX-PWR+: Mirroring functionality is not working for RSTP BPDUs.	None.	
wi01171670	Telnet packets get encrypted on MACsec enabled ports.	None.	
wi01198872	A loss of learned MAC addresses occurs in a vIST setup beyond 10k addresses. In a SPB setup the MAC learning is limited to 13k MAC addresses, due to the limitation of the internal architecture when using SPB. Moreover, as vIST uses SPB and due to the way vIST synchronizes MAC addresses with a vIST pair, the MAC learning in a vIST setup is limited to 10K Mac addresses.	None.	
wi01210217	The command show eapol auth-stats displays LAST-SRC- MAC for NEAP sessions incorrectly.	n/a	
wi01211415	In addition to the fan modules, each power supply also has a fan. The power supply stops working if a power supply fan fails, but there is no LED or software warning that indicates this failure. Try to recover the power supply fan by resetting the switch. If the fan does not recover, then replace the faulty power supply.	n/a	
wi01212034	When you disable EAPoL globally: - Traffic is allowed for static MAC configured on EAPoL enabled	n/a	
	port without authentication. - Static MAC config added for authenticated NEAP client is lost.		
wi01212247		Bounce the BGP protocol globally.	
wi01212247 wi01212585	Static MAC config added for authenticated NEAP client is lost. BGP tends to have many routes. Frequent additions or deletions impact network connectivity. To prevent frequent additions or deletions, reflected routes are not withdrawn from client 2 even though they are withdrawn from client 1. Disabling route-reflection can create a black hole in the network. LED blinking in EDM is representative of, but not identical to, the		
	Static MAC config added for authenticated NEAP client is lost. BGP tends to have many routes. Frequent additions or deletions impact network connectivity. To prevent frequent additions or deletions, reflected routes are not withdrawn from client 2 even though they are withdrawn from client 1. Disabling route-reflection can create a black hole in the network.		

wi01213336	When you configure tx mode port mirroring on T-UNI and SPBM NNI ports, unknown unicast, broadcast and multicast traffic packets that ingress these ports appear on the mirror destination port, although they do not egress the mirror source port. This is because tx mode port mirroring happens on the mirror source port before the source port squelching logic drops the packets at the egress port.	n/a	
wi01219658	The command show khi port-statistics does not display the count for NNI ingress control packets going to the CP.	n/a	
wi01219295	SPBM QOS: Egress UNI port does not follow port QOS with ingress NNI port and Mac-in-Mac incoming packets.	n/a	
wi01223526	ISIS logs duplicate system ID only when the device is a direct neighbor.	n/a	
wi01223557	Multicast outage occurs on LACP MLT when simplified vIST peer is rebooted.	You can perform one of the following work arounds: - Enable PIM on the edge. - Ensure that IST peers are either RP or DR but not both.	
wi01224683	Additional link bounce may occur on 10 Gbps ports when	n/a	
wi01224689	toggling links or during cable re-insertion.		
wi01224683	Additional link bounce may occur with 40 Gbps optical cables	n/a	
wi01224689	and 40 Gbps break-out cables, when toggling links or during cable re-insertion.		
wi01229417	Origination and termination of IPv6 6-in-4 tunnel is not supported on a node with vIST enabled.	None.	
wi01232578	When SSH keyboard-interactive-auth mode is enabled, the server generates the password prompt to be displayed and sends it to the SSH client. The server always sends an expanded format of the IPv6 address. When SSH keyboard-interactive-auth mode is disabled and password-auth is enabled, the client itself generates the password prompt, and it displays the IPv6 address format used in the ssh command.	None.	
wi01234289	HTTP management of the ONA is not supported when it is deployed with a VSP 4000 Series device.	None.	

SSH connections

VOSS 4.1.0.0 and VOSS 4.2.0.0 SSH server and SSH client support password authentication mode.

VOSS 4.2.1.0 changed the SSH server from password authentication to keyboard-interactive. VOSS 4.2.1.0 changed the SSH client to automatically support either password authentication or keyboard-interactive mode.

In VOSS 4.2.1.0, you cannot configure the SSH server to support password authentication. This limitation creates a backward compatibility issue for SSH clients that do not support keyboardinteractive mode, including SSH clients that are part of pre-VOSS 4.2.1.0 software releases. For example, VOSS 4.1.0.0 SSH clients, VOSS 4.2.0.0 SSH clients, and external SSH clients that only support password authentication cannot connect to VOSS 4.2.1.0 SSH servers.

This issue is addressed in software release VOSS 4.2.1.1 and later. The default mode of the SSH server starting from VOSS 4.2.1.1 is changed back to password authentication. Beginning with VOSS 5.0, you can use an CLI command to change the SSH server mode to keyboard-interactive.

For more information about how to configure the SSH server authentication mode, see Administering.

Note: If you enable the ASG feature, the SSH server must use keyboard-interactive.

See the following table to understand SSH connections between specific client and server software releases.

Client software			
release	Server software release	Support	
VOSS 4.1.0.0	VOSS 4.2.0.0	Supported	
VOSS 4.1.0.0	VOSS 4.2.1.0	Not supported	
VOSS 4.2.0.0	VOSS 4.2.1.0	Not supported	
VOSS 4.1.0.0	VOSS 4.2.1.1	Supported	
VOSS 4.2.0.0	VOSS 4.2.1.1	Supported	

SSL certificates

The switch uses the Extreme Networks SSL certificate by default.

For more information about SSL certificates, see Administering.

Fabric Extend IP over ELAN/VPLS

This feature allows multiple switches running Fabric Extend IP to be directly connected over a Layer 2 broadcast domain without the need for loopback VRFs in Release 6.0 or later.

Releases earlier than 6.0 have a single next hop/ARP restriction that require the use of loopback VRFs to deploy Fabric Extend IP over ELAN/VPLS.

For more information, see Configuring Fabric Basics and Layer 2 Services .

Redirect next-hop filter limitations

This feature does not behave the same way on all platforms. See the appropriate section below for your platform.

VSP 4000 limitation:

The redirect next-hop filter redirects packets with a time-to-live (TTL) of 1 rather than sending them to the CPU where the CPU would generate ICMP TTL expired messages. IP Traceroute does not correctly report the hop. For more information, see Configuring QoS and ACL-Based Traffic Filtering.

VSP VSP 7200/8000 limitation:

The redirect next-hop filter does not redirect packets with a time-to-live (TTL) of 1 nor does it send them to the CPU where the CPU would generate ICMP TTL expired messages. IP Traceroute reports a timeout for the hop. For more information, see Configuring QoS and ACL-Based Traffic Filtering.

Filter limitations

The following table identifies known limitations.

Applies To	Limitation
VSP 4000	The switch does not support logging and PCAP with filters.
VSP 7200	
VSP 8000	
	ACL limitations
VSP 4000	Only Port-based ACLs are supported on egress. VLAN-based ACLs are not supported.
VSP 7200	
VSP 8000	
VSP 4000	IPv6 ingress QoS ACL/Filters and IPv6 egress security and QoS ACL/Filters are not supported.
VSP 7200	
VSP 8000	
VSP 4000	Control packet action is not supported on IPv6 filters.
VSP 7200	
VSP 8000	
VSP 4000	IPv4/IPv6 VLAN based ACL filters will be applied on traffic received on all the ports if it matches VLAN ID associated
VSP 7200	with the ACL.
VSP 8000	
VSP 7200	VLAN ID and VLAN_DOT1p attributes for untagged traffic are not supported for ingress/egress filters.
VSP 8000	
VSP 4000	Scaling numbers are reduced for IPv6 filters.
VSP 7200	
VSP 8000	
	ACE limitations
VSP 4000	When an ACE with action count is disabled, the statistics associated with the ACE are reset.
VSP 7200	
VSP 8000	
VSP 4000	Only security ACEs are supported on egress. QoS ACEs are not supported.
VSP 7200	
VSP 8000	
VSP 4000	ICMP type code qualifier is supported only on ingress filters.
VSP 7200	
VSP 8000	
VSP 4000	For port-based ACLs, you can configure VLAN qualifiers. Configuring Port qualifiers are not permitted.
VSP 7200	
VSP 8000	
VSP 4000	For VLAN-based ACLs, you can configure port qualifiers. Configuring VLAN qualifiers are not permitted.
VSP 7200	
VSP 8000	
VSP 4000	Egress Security/QoS filters are not supported for IPv6 filters.
VSP 7200	
VSP 8000	
VSP 4000	Ingress QoS filters are not supported for IPv6 filters.
VSP 7200	
VSP 8000	
VSP 4000	Source/Destination MAC addresses cannot be added as attributes for IPv6 filters ACEs.
VSP 7200	
VSP 8000	
VSP 4000	If more than 256 IPv6 filters are configured, number of IPv4 filters will get reduced.
VSP 7200	
VSP 8000	

Chapter 14: Resolved issues

The following table identifies the issues resolved in Release 6.1.

Fixes from previous releases

VOSS 6.1 incorporates all fixes from prior releases, up to and including VOSS 5.1.1.6 and VOSS 6.0.1.2.

Issue number	Description
VOSS-687	EDM and CLI show different local preference values for a BGP IPv6 route.
	EDM displays path attributes as received and stored in the BGP subsystem. If the attribute is
	from an eBGP peer, the local preference appears as zero.
	CLI displays path attributes associated with the route entry, which can be modified by a policy.
	If a route policy is not configured, the local preference shows the default value of 100.
VOSS-1420	On an untagged ARP packet, ingressing on a Layer 2 VSN interface will honor default the port
	QoS. Changing port QoS value will not be honored.
VOSS-1430	When an operational SMLT is removed from a T-UNI ISID and is not added to any other VLAN
	or T-UNI ISID, then Spanning Tree is enabled on this SMLT interface. Spanning Tree is
	disabled when added to a VLAN or T-UNI ISID.
VOSS 1400	This issue has no impact. You cannot use EDM to clear Fabric Attach statistics.
VOSS-1499 VOSS-1545	The switch does not Support Fabric Extend over Layer 2 VLAN
VU33-1545	(FE-VID) logical interface configuration over an MLT interface.
VOSS-1747	On a VSP 8404 with MLT on 10G ports on an 8424XT or 8424XTQ module, multiple VLANs
1000-1141	that have the MLT as a member of the VLAN, there is a possibility that a copy of the IP
	multicast traffic may not be sent on all VLANs that have a receiver on the MLT.
VOSS-2444	The output of the show ip mroute stats [group address] command wraps to an additional
	line.
	Four columns of data are on one line and the fifth column,AverageSize,wraps to an
	additional line.
	There is also an extra line feed in the column header.
VOSS-2792	Untagged (access) ports drop 9600 byte packets when the system MTU is set to 9600. (9596
	byte packets are accepted.) The same packets are not dropped if ingressing on a tagged port.
VOSS-3546	
VOSS-4918 VOSS-4114,	VSP8404 was unresponsive after reboot.
VOSS-4114, VOSS-4116,	You cannot use FireFox 50 or newer to connect to EDM using HTTPS.
VOSS-4972 &	
VOSS-5258	
VOSS-4505	EDM-DDI tab displays all ports on system instead of single channelized ports for 40G
	channelized ports
VOSS-4554 &	The show ip vrrp address command does not accurately display the value of the holddown
VOSS-4910	timer remaining.
VOSS-4627	The qos if-policer allows configuration of peak-rate and svc-rate in the range 64 - 10000000
	Kbps. However on 1G and 10G links, the effective policer rate is on the nearest 500 Kbps
	boundary (approximately), with a minimum policer rate of 500 Kbps. For example, configuring
	both peak-rate and svc-rate at 900 will result in an effective policer rate of 1000 (Kbps). This
	limitation does not apply to 10M and 100M negotiated links. On 10M and 100M links, the
	effective policer rate is close to any configured rate in the advertised range.
	Note: Due to a related issue, the minimum rate of 64 should not be used on any link.
V088 4704	Inter V/DE static route where pout her address is in such as V/DE was not being the such as
VOSS-4724	Inter-VRF static route where next-hop address is in another VRF was not being cleaned up
VOSS-4843	properly when the nexthop is removed. CDP packet is sending prompt for Device ID and Platform.
VOSS-4856	On a DvR Leaf, you cannot configure an sFlow agent IP address to use one of the subnets that
	is DvR enabled or a DvR controller.
VOSS-4908	When a tunnel to a VTEP goes down on a vIST peer, the MAC address is not relearned during
	the first mac-aging timer interval. The VTEP continues to flood traffic ensuring there is no traffic
	loss. The MAC address is synchronized at the next mac-aging timer trigger.
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VOSS-4935	The system will display unnecessary rcdRadixLookup failed messages if you perform any of the following functions simultaneously in both vIST peers: - Delete a VLAN. - Delete ISID of a VLAN. - Disable DvR. - Reboot the switch.
VOSS-4986, VOSS-5030, VOSS-5046 & VOSS-5065	You can experience MIB walk failures on the following tables: - rcIgmpSenderTable - rcIsisPlsbIpUnicastFibTable - rcIsisPlsbMcastFibTable - the interface table (IF-MIB) on a DvR leaf - rcIpRedistributeInterVrfTable if you use DvR and route redistribution
VOSS-5076	When using EDM, changing the VLAN configuration of a Tagged MLT composed of multiple
VOSS-5161	vlans results in only the last VLAN being selected. If you configure a DvR Leaf for in-band management (inband-mgmt-ip), SNMP and SYSLOG protocols send out the DvR Gateway IP as the source address of packets.
VOSS-5256	Add support for new extended range SR4 40G module AA1404006 from Finissar
VOSS-5274	CFM L2 ping/traceroute from a VOSS device towards an end device is failing when there are two ECMP paths on different SPBM vlans. Return path is selecting wrong interface.
VOSS-5413	LSDB detail sometimes incorrectly populating TLV 147 chassis mac with chassis mac associated with another nodes LDP information
VOSS-5602	Enhance SPB L3 Unicast to support overload bit for IP shortcut and IPv6 Routes.
VOSS-5670	In an SPBM environment, when you execute the traceroute command to a destination IP address learned using inter-VRF routing, the traceroute fails.
VOSS-5855	You cannot use SFTP to download the alarm log files or the output of the show fulltech file <filename> command.</filename>
VOSS-6377	Traffic loss between VOSS systems that have adjacent FE tunnels.
VOSS-6443	Using SPB nickname of 3.33.33 causes issues forwarding broadcast and subnet multicast packets
VOSS-6702 & VOSS-6848	Redistributed Default route learnt via ISIS is not learnt correctly.
VOSS-6895	Reserved ISIDs for DVR have been changed to match DVR functionality in 6.1.0.0 and beyond. This requires that if any DVR node is upgraded to 6.0.1.2 or higher, all nodes running DVR need to be running 6.0.1.2 or higher. Also a consistency check was added to prevent the entire reserved ISID range greater than or equal to16,000,000 from being configured. See the following section: <u>Upgrade considerations</u>
VOSS-6994	DVR host entry is not relearnt after clearing ARP(manual forced clear)from controllers connected to SMLT host with continuous bi-directional traffic.
VOSS-7124	ARP learnt on one IST peer is not learnt by the other IST peer.
VSP4000-58	VSP4000 tagged ARP packets are allowed to CP for processing even if that tagged packet ingresses a port that is not a vlan member.
VSP4000-118	Watchdog paradum collection onhoneod to collect mars information for state of the 10
VSP4000-126 VSP4000-125	Watchdog coredump collection enhanced to collect more information for state of the IO SNMP MIB walk does not return complete set of objects for dot1dBasePortTable
V OF 4000-120	Netboot process fails for Apple Mac PC when DHCP-relay is configured on VSP 4450 switches
VSP4000-129	running SPBM-L2VSN
VSP4000-133	Inconsistency in EDM LED Status With Physical Device LED Status
	ISIS logical adjacency does not re-establish when the physical port containing the IP tunnel is
	bounced. In this scenario, the ISIS control packets are sent with a source mac of all zeros, leading to any intermediate L2 devices between the logical adjacency endpoints dropping the
VSP4000-134	packet.
VSP4000-135	Syslog showed passwords and SNMP community strings in the clear.
	Trace level 125 is defaulted to very terse.
VSP4000-138	This results in a large number of PLSB/ISIS related messages in the trace file.
VSP4000-144	VSP4000 datapath support of IP Directed Broadcast using port 1/46

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VSP4000-141	Duplicate Nickname connected to existing SPBM topology caused network outage. SPBM ISIS Duplicate System Id/Nickname Detection. Enhancements were made to the SPBM code in all products to help prevent network outages caused by duplicate misconfigurations of Nickname and/or System-id. - The upgraded code has algorithms to detect duplicate system-id and/or Nickname when a node is introduced into the SPB network. When duplication is detected the newly added duplicate system is isolated from the SPBM network by automatically disabling ISIS and the existing SPBM nodes perform clean-up activities for the corruption introduced. - The recovery procedure is as follows depending on which entity was duplicated: a. If both the Nickname and System-id were duplicated, then both need to be made unique and ISIS re-enabled b. If only the System-id was duplicated then the Nickname needs to be changed, the System-id needs to be made unique and ISIS re-enabled c. If only the Nickname was duplicated then: 1. Either wait 20 minutes for the LSPs from that System-id to age out of the network, make the Nickname unique and re-enable ISIS 2. Or if the node needs to be introduced into the network immediately, make the Nickname unique, change the System-id and re-enable ISIS - A CLI consistency check was introduced to prevent a virtual BMAC being erroneously configured equal to the "system-id" or the "IST peer's system-id". - To help administrators identify and avoid introducing a duplicate, the existing CLI command "show isis spbm nick-name" was augmented to include all system identifications that need to be unique: LSP-id /system-id, Nickname, Virtual BMAC and Host name. - Filtering by nick-name, smlt-virtual-bmac and sysid options were added to the "show isis spbm nick-name" command.
VSP4000-146	ISIS logical adjacency does not re-establish when the physical port containing the IP tunnel is bounced. In this scenario, the ISIS control packets are sent with a source mac of all zeros, leading to any intermediate L2 devices between the logical adjacency endpoints dropping the packet.
VSP4000-150	Changes to an OSPF interface metric via EDM are not reflected in the running config
VSP4000-160	If a VLAN becomes active on the local node while our IST peer is down, the RSMLT for that VLAN was being kept in holddown state for 60 secs, preventing the local node from forwarding on behalf of the downed peer during this period.
VSP4000-161	BGP adjacency fails to re-establish after a port bounces multiple times in succession.
VSP4000-163	On a VSP 4000 platform pair, users are able to set port operation to 10M-half duplex on either side and able to see the link is running at 10M-half duplex. However, when configuration save and reboot action is performed, the operation will revert back to 10M-full duplex.
VSP4000-171	FE-ONA Tunnels not coming up with VOSS 6.0.x.x.
VSP7200-14	L3VSN traffic destined for routes within a VRF context that learned any routes via ISIS accept policies may get dropped.
VSP7200-16	L3VSN traffic destined for routes within a VRF context that learned any routes via ISIS accept policies may get dropped
VSP7200-20	Following messages seen when PLSB FIB DB exceeded. "Failed to insert VpnldBmacEntry: vpnld(0x16f) bvlan(4052) bmac(0xbb00000200) index(64385) PLSBFIB ERROR: /vob/cb/nd_protocols/plsb/lib/spbRemotePort.cpp(line 815) addBmacBVlanToVpnld() Failed to insert VpnldBmacEntry: vpnld(0x182) bvlan(4052) bmac(0xbb00000200) index(64403)"
VSP7200-22	'SW ERROR Invalid tPORT: 81 for getLpidFromPort conversion!!' error started appearing in system logs without any functional impact
VSP7200-23	"CP1 [02/02/17 12:26:34.774:UTC] 0x00010870 00400028.1 DYNAMIC SET GlobalRouter HW WARNING Fans airflow direction mismatch" log message seen after upgrade to 6.0.1.0
VSP7200-24	For a VIST cluster with asymmetric SMLT traffic flows, MAC aging and re-ARPing logic causes extended period of traffic loss. ARPs can be seen pointing to TX-NNI for extended times and the peer has ARP pointing to the SMLT port, however no MAC is present. Fix detects the condition and re-initiates MAC learning so packets may flow correctly.
VSP8000-130	Show running config command incorrectly shows truncated display of software version information
VSP8000-144	EDM/SNMP Walk of IP DHCP Relay global table does not show up entries for VRF
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VSP8000-145	Route map deletion causes crash after removing OSPF instance in VRF
	VRRP Hold-down timers do not come into effect at the same time for multiple VRRP instances
VSP8000-157	during failover tests.
VSP8000-162	Traps not sent on GBIC insertion and GBIC removal.
VSP8000-166	ARP table Entry maybe learned in wrong VRF context after disabling an NNI Link.
VSP8000-168	Switch may reset when deleting a VRF and a static route which has a next hop in the deleted VRF. Consistency check added to not allow VRF deletion until all routes that refer to the VRF are deleted.
VSP8000-171	VSP 8000 crash during a FTP upload
VSP8000-173	Inconsistent ARP table Entry noticed after disabling NNI Link
VSP8000-178	SPBM-ISIS Configuration Not Displayed with 'show run' Config.
VSP8000-182	MIB "ifSpeed" for 10G/40G ports returns 1,345,294,336.
VSP8000-183	Adding a new SPB node into network causes OSPF adjacencies to fail on interfaces where ISIS adjacency is okay. This is a symptom of generic SPB network node scaling limits exceeded. Increased scaling limits. See the following section:
	Fabric Scaling
VSP8000-184	SPBM-ISIS Configuration Not Displayed with 'show run' Config.
VSP8000-187	"AggregateOrIndividual" column in EDM is misleading. Column is removed.
VSP8000-188	If a VRRP mac is learned via an SMLT port, then moves to a different port (VIST port, another SMLT), the mac is not completely cleaned up from the original SMLT port. If the original SMLT port bounces, the VRRP mac is incorrectly re-tied to the original port, resulting in routing issues for packets sent to the VRRP mac address.
VSP8000-189	Prevent internal IP addresses (127.x.x.x) from being returned in SNMP requests for the ipNetToMediaTable.
VSP8000-195	GlobalRouter SNMP INFO Duplicate IP address message should be set as WARNING, not just INFO.
VSP8000-196	VSP 8000: Switch Erases The Route Policy Config Parameter "Match Route-Type ExternalType-2" Post The Device Reboot.
VSP8000-197	Unable to SSH to switch with error message "sshError: SSH: Server is shutting down. Please try after some time".
VSP8000-199	SCP does not work with DSA/RSA certificate authentication methods.
	High CPU utilization and memory leak when responding to large ICMP echo request packets
VSP8000-202	that required fragmentation.
	MIB ifOperStatus is reported down on a SPB VLAN with no UNI local port assigned to that
VSP8000-208	VLAN. OSPF statically configured neighbors on NBMA circuits are lost after a reboot if the nbma
VSP8000-214	circuit is configured on a brouter port.
VSP8000-215	Port statistics show zero in EDM for attributes that are not valid for 1 Gig ports.
	Connectivity issue reaching L3VSN ECMP routes to a node with an ISIS system ID having the 0x020000000000 bit set (locally administered bit). Problem appears when the route using the
VSP8000-218	secondary bvid is removed or replaced.

Chapter 15: Feature licensing

The VSP 4000, VSP 7200, VSP 8200, and VSP 8400 series support a licensing model that includes Base and Premier licenses. The Base License, which is included with the purchase of the switch, enables the basic networking capabilities of the device. You can purchase Premier Licenses separately to enable advanced features on the switch.

Premier Licenses enable advanced features not available in the Base License. The following table provides information on the Premier Licenses that the switch supports.

License type	Supported features
Premier	- Fabric Connect Layer 3 Virtual Services Networks (VSNs)
License	- DvR
	- VXLAN Gateway
	- Greater than 24 VRFs and Layer 3 VSNs
Premier with	- Fabric Connect Layer 3 Virtual Services Networks (VSNs)
MACsec	- DvR
License	- VXLAN Gateway
	- Greater than 24 VRFs and Layer 3 VSNs
	- IEEE 802.1AE MACsec

For information about licensing including how to load a license file, see Administering.

Chapter 16: Features by release

The following table identifies the release that first introduced feature support on a hardware platform. Each new release includes all the features from previous releases unless specifically stated otherwise.

NOTE:

- Release 4.1 was the first VOSS release. Release numbers earlier than 4.1 are releases specific to the particular platform.

	Release introduced (by platform series)			
Features	VSP 4000	VSP 7200	VSP 8200	VSP 8400
Access Control List (ACL)-based filtering:				
- Egress ACLs				
- Ingress ACLs				
- Layer 2 to Layer 4 filtering	2.0	4.0.4	1.0	4.0
- Port-based	3.0	4.2.1	4.0	4.2
- VLAN-based				
For more information, see Configuring QoS and ACL-Based Traffic				
Filtering.				
Address Resolution Protocol (ARP)				
- Proxy ARP	2.0	4.2.4	1.0	4.2
- Static ARP	3.0	4.2.1	4.0	4.2
For more information, see Configuring IPv4 Routing.				
All Fabric Connect services with switch cluster				
For more information, see the Fabric Connect documents:				
 Configuring Fabric Basics and Layer 2 Services 	4.1	4.2.1	4.0	4.2
 Configuring Layer 3 Fabric Services 				
Configuring Fabric Multicast Services				
Alternative routes for IPv4	0.4	4.0.4	4.0	4.0
For more information, see Configuring IPv4 Routing.	3.1	4.2.1	4.0	4.2
Alternative routes for IPv6	F 4	E 4	E 4	F 4
For more information, see Configuring IPv6 Routing.	5.1	5.1	5.1	5.1
Automatic QoS				
For more information, see Configuring QoS and ACL-Based Traffic	3.0	4.2.1	4.0	4.2
Filtering.				
Border Gateway Protocol (BGP) for IPv4	2.4	4.2.1	4.1	4.2
For more information, see Configuring BGP Services.	3.1	4.2.1	4.1	4.2
BGP+ (BGP for IPv6)	5.0	5.0	5.0	5.0
For more information, see Configuring BGP Services.	5.0	5.0	5.0	5.0
Bridge Protocol Data Unit (BPDU) Guard				
For more information, see Configuring VLANs, Spanning Tree, and	6.0	6.0	6.0	6.0
NLB.				
CFM configuration on C-VLANs	3.1	n/a	n/a	n/a
For more information, see Troubleshooting.	3.1	II/a	II/d	II/a
Certificate order priority				
NOTE: Releases 6.0 and 6.0.1 do not support this feature.	5.1.2	5.1.2	5.1.2	5.1.2
For more information, see Configuring Security.				
Channelization of 40 Gbps ports				
For more information, see the hardware documentation and	n/a	4.2.1	4.2	4.2
Administering.				
Channelization of 100 Gbps ports				
For more information, see the hardware documentation and	n/a	n/a	n/a	n/a
Administering.				
Command Line Interface (CLI)	3.0	4.2.1	4.0	4.2
For more information, see Using CLI and EDM.	5.0	7.2.1	4.0	7.2
Configuration and Orchestration Manager Plus (COM Plus)	3.0	4.2.1	4.0	4.2
For more information, see Extreme Networks COM Plus	-		-	
documentation, http://extremenetworks.com/support/documentation				
DHCPv6 Guard	5.0	5.0	5.0	5.0
For more information, see Configuring Security.	0.0	0.0	0.0	0.0

For more information, see Configuring Security. 0.1 0.1 0.1 0.1 DerCP Snopping (IP46) 5.1 5.1 5.1 5.1 5.1 Der Der sonition (IP46) 5.1 5.1 5.1 5.1 5.1 Diffe entifications, see Configuring Security. 5.1.2 5.1.2 5.1.2 5.1.2 Differentiated Services (DIfferv) including Per-Hop Behavior. 5.1.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	DHCP Snooping (IPv4)	. (A (
For more information, see Configuring Security. 5.1 5.1 5.1 5.1 5.1 5.1 NOTE: Releases 6.0 and 6.0.1 do not support this feature. 5.1.2 5.1.2 5.1.2 5.1.2 5.1.2 5.1.2 5.1.2 5.1.2 5.1.2 5.1.2 5.1.2 5.1.2 5.1.2 5.1.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1		6.1	6.1	6.1	6.1
Digital certificate/PKI On the support this feature. 5.1.2 5.1.		5.1	5.1	5.1	5.1
For more information, see Configuring Security. Image: Configuring CoS and ACL-Based Traffic 3.0 4.2.1 4.0 4.2 Directed Broadcast For more information, see Configuring Security. 5.1.1	Digital certificate/PKI				
Differentiated Services (DiffServ) including Per-Hop Behavior For more information, see Configuring GoS and ACL-Based Traffic Filtering. 4.2.1 4.0 4.2 Directed Broadcast For more information, see Configuring Security. 5.1.1 <td< td=""><td></td><td>5.1.2</td><td>5.1.2</td><td>5.1.2</td><td>5.1.2</td></td<>		5.1.2	5.1.2	5.1.2	5.1.2
For more information, see Configuring QoS and ACL-Based Traffic 3.0 4.2.1 4.0 4.2 Directed Broadcast For more information, see Configuring Security. 5.1.1					
Filtering.		3.0	121	4.0	12
Directed Broadcast 5.1.1 5.1.5 5.1.5 5.1.5 5.1.5 5.1.5 5.1.5 5.1.5 5.1.5 5.1.1 5.1.1 5.1.1 <td></td> <td>5.0</td> <td>4.2.1</td> <td>4.0</td> <td>4.2</td>		5.0	4.2.1	4.0	4.2
Per more information, see Configuring IPv4 Routing. Na 6.0.1 6.0.1 6.0.1 For more information, see Configuring IPv4 Routing. 6.1 6.0.1 6.0.1 6.0.1 Domain Name Service (DNS) cleft (IPv4 3.0 4.2.1 4.0 4.2 Domain Name Service (DNS) cleft (IPv4 3.0 4.2.1 4.0 4.2 DNS cleft (IPv6) 4.1 4.2.1 4.1 4.2 Por more information, see Configuring Security. 6.1 6.1 6.1 6.1 Por more information, see Configuring IPv4 Routing. 3.0 4.2.1 4.0 4.2 Por more information, see Configuring IPv4 Routing. 3.0 4.2.1 4.0 4.2 Egress port Intror For more information, see Configuring OS and ACL-Based Traffic 3.0 4.2.1 4.0 4.2 Egress port Intror For more information, see Configuring OS and ACL-Based Traffic 3.0 4.2.1 4.2 4.2 Encryption modules - The encryption modules file is included in the trained secure mode for JITC and non-JITC sub-modes. 5.1 5.1 5.1 5.1 5.1 5.1					
Distributed Virtual Routing (DvR) controller n/a 6.0.1 6.0.1 6.0.1 Distributed Virtual Routing (DvR) leaf For more information, see Configuring IPV4 Routing. 6.1 6.0.1 6.0.1 6.0.1 Domain Name Service (DNS) client (IPV4) 3.0 4.2.1 4.0 4.2 DNS client (IPv6) For more information, see Administering. 4.1 4.2.1 4.1 4.2 Dynamic ARP Inspection (DAI) End more information, see Configuring Security. 6.1 6.1 6.1 6.1 Dramation ARP Configuring IPv4 Routing. Son 4.2.1 4.0 4.2 Error more information, see Configuring QoS and ACL-Based Traffic 3.0 4.2.1 4.0 4.2 Error mote information, see Configuring QoS and ACL-Based Traffic 3.0 4.2.1 4.2 4.2 Error mein information, see Configuring QoS and ACL-Based Traffic 3.0 4.2.1 4.2 4.2 Error mote information, see Configuring CoS and ACL-Based Traffic 3.0 4.2.1 4.2 4.2 Enrore information, see Configuring CoS and ACL-Based Traffic 3.0 4.2.1 4.2 <td></td> <td>5.1.1</td> <td>5.1.1</td> <td>5.1.1</td> <td>5.1.1</td>		5.1.1	5.1.1	5.1.1	5.1.1
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Protocol Independent Multicast-Sparse Mode (PIM-SM), PIM-				
Source Specific Mode (PIM-SSM) for IPv4		4.0.4	4.6.4	4.0
For more information, see Configuring IP Multicast Routing	4.1	4.2.1	4.0.1	4.2
Protocols.				
		I		ļ

PIM over IPv6		1	1	I
For more information, see Configuring IP Multicast Routing	5.1	5.1	5.1	5.1
Protocols.	0.1	0.1	0.1	0.1
Power Management				
For more information, see Administering.	n/a	n/a	n/a	n/a
Power over Ethernet (PoE)	3.0	n/a	n/a	n/a
For more information, see Administering.	5.0	Ti/d	n/a	11/4
PoE/PoE+ allocation using LLDP	5.1	n/a	n/a	n/a
For more information, see Administering.	0.1	,		
QoS Access Control Entries (ACE)		101	4.0	4.0
For more information, see <i>Configuring QoS and ACL-Based Traffic</i>	3.0	4.2.1	4.0	4.2
Filtering . QoS ingress port rate limiter				
For more information, see <i>Configuring</i> QoS and ACL-Based Traffic	n/a	4.2.1	4.0	4.2
Filtering.	II/a	4.2.1	4.0	4.2
QoS per queue rate limiting				
For more information, see <i>Configuring QoS and ACL-Based Traffic</i>	5.1	5.1.1	5.1.1	5.1.1
Filtering.	0.1	0.1.1	0.111	0.1.1
RADIUS (IPv6)				
For more information, see Configuring Security.	4.1	4.2.1	4.1	4.2
RADIUS, community-based users (IPv4)		10.1	4.0	4.0
For more information, see Configuring Security.	3.0	4.2.1	4.0	4.2
RADIUS secure communication using IPSec for IPv4				
NOTE: Releases 6.0 and 6.0.1 do not support this feature.	5.1.2	5.1.2	5.1.2	5.1.2
For more information, see Configuring Security.				
RADIUS secure communication using IPSec for IPv6				
NOTE: Releases 6.0 and 6.0.1 do not support this feature.	5.1.2	5.1.2	5.1.2	5.1.2
For more information, see Configuring Security.				
Remote Login (Rlogin) server/client (IPv4)	3.0	4.2.1	4.0	4.2
For more information, see Administering.	5.0	4.2.1	4.0	4.2
Rlogin server (IPv6)	4.1	4.2.1	4.1	4.2
For more information, see Administering.	7.1	4.2.1	7.1	7.2
Remote Monitoring 1 (RMON1) for Layer 1 and Layer 2				
For more information, see <i>Monitoring Performance</i> .	3.0	4.2.1	4.0	4.2
Note: Release 5.0 and 5.1 do not support RMON1.				
Remote Monitoring 2 (RMON2) for network and application layer				
protocols	4.2	4.2.1	4.2	4.2
For more information, see <i>Monitoring Performance</i> .				
Remote Shell (RSH) server/client	0.0	4.0.4	1.0	4.0
For more information, see Administering.	3.0	4.2.1	4.0	4.2
Route Information Protocol (RIP)	3.1	4.2.1	4.0	4.2
For more information, see Configuring OSPF and RIP.	5.1	4.2.1	4.0	4.2
Route metric for BGP route redistribution	6.1	6.1	6.1	6.1
For more information, see Configuring BGP Services.	0.1	0.1	0.1	0.1
RIPng	5.0	5.0	5.0	5.0
For more information, see Configuring IPv6 Routing.	0.0	0.0	0.0	0.0
run spbm installation script				
For more information, see <i>Configuring Fabric Basics and Layer</i> 2	4.1	4.2.1	4.1	4.2
Services.				
Russia summer time zone change	4.2	4.2.1	4.2	4.2
For more information, see Administering.				
Secure Copy (SCP) Note: The switch does not support the WinSCP client.	2.0	5.0	1.0	5.0
For more information, see Administering.	3.0	5.0	4.0	5.0
Secure hash algorithm 1 (SHA-1) and SHA-2				
For more information, see <i>Configuring OSPF and RIP</i> .	4.2	4.2.1	4.2	4.2
Secure Shell (SSH) (IPv4)				
For more information, see <i>Administering</i> .	3.0	4.2.1	4.0	4.2
Secure Sockets Layer (SSL) certificate management				
For more information, see <i>Administering</i> .	4.1	4.2.1	4.1	4.2
Security ACEs				
For more information, see <i>Configuring</i> QoS and ACL-Based Traffic	3.0	4.2.1	4.0	4.2
Filtering.	0.0	7.2.1	4.0	۲.۲
sFlow				
For more information, see <i>Monitoring Performance</i> .	6.0	6.0	6.0	6.0
Simple Loop Prevention Protocol (SLPP)		1		
For more information, see <i>Configuring VLANs</i> , <i>Spanning Tree, and</i>	3.0	4.2.1	4.0	4.2
NLB.	-		-	
	3.0	4.2.1	4.0	4.2

Simple Mail Transfer Protocol (SMTP) for log notification			1	
For more information, see <i>Monitoring Performance</i> .	6.0	6.0	6.0	6.0
Simple Network Management Protocol (SNMP) v1/2/3 (IPv4) For more information, see <i>Configuring Security</i> .	3.0	4.2.1	4.0	4.2
SLA Mon For more information, see <i>Configuring the SLA Mon Agent</i> .	4.1	6.0	4.1	4.2
SLPP Guard For more information, see <i>Configuring Link Aggregation, MLT,</i> <i>SMLT, and vIST</i> .	6.1	6.1	6.1	6.1
SNMP (IPv6) For more information, see <i>Configuring Security</i> .	4.1	4.2.1	4.1	4.2
SoNMP For more information, see Administering.	3.0	4.2.1	4.0	4.2
Spanning Tree Protocol (STP): - Multiple STP (MSTP)				
- Rapid STP (RSTP) For more information, see <i>Configuring VLANs, Spanning Tree, and</i> <i>NLB.</i>	3.0	4.2.1	4.0	4.2
spbm-config-mode For more information, see <i>Configuring IP Multicast Routing</i> <i>Protocols</i> .	4.1	4.2.1	4.0.1	4.2
SPB-PIM Gateway controller node For more information, <i>see Configuring Fabric Multicast Services</i> .	6.0	6.0	6.0	6.0
SPB-PIM Gateway interface For more information, see <i>Configuring Fabric Multicast Services</i> .	6.0	6.0	6.0	6.0
SSH (IPv6) For more information, see <i>Administering.</i>	4.1	4.2.1	4.1	4.2
SSH client disable For more information, see <i>Administering</i> .	6.0	6.0	6.0	6.0
SSH key size NOTE: Releases 6.0 and 6.0.1 do not support this feature. For more information, see <i>Administering.</i>	5.1.2	5.1.2	5.1.2	5.1.2
SSH rekey For more information, see <i>Administering</i> .	5.1	5.1	5.1	5.1
Static routing For more information, see <i>Configuring IPv4 Routing</i> .	3.0	4.2.1	4.0	4.2
Suspend duplicate system ID detection For more information, see <i>Configuring Fabric Connect Basics and</i> Laver 2 Services.	6.1	6.1	6.1	6.1
Switch cluster (multi-chassis LAG) -Virtual Inter-Switch Trunk (vIST) For more information, see <i>Configuring Link Aggregation, MLT,</i> <i>SMLT, and vIST.</i>	4.1	4.2.1	4.0	4.2
Switched UNI For more information, see <i>Configuring Fabric Basics and Layer 2</i> Services.	5.0	5.0	5.0	5.0
TACACS+ For more information, see <i>Configuring Security</i> .	4.0	4.2.1	4.1	4.2
TACACS+ secure communication using IPSec for IPv4 NOTE: Releases 6.0 and 6.0.1 do not support this feature. For more information, see <i>Configuring Security</i> .	5.1.2	5.1.2	5.1.2	5.1.2
Telnet server and client (IPv4) For more information, see <i>Administering</i> .	3.0	4.2.1	4.0	4.2
Telnet server and client (IPv6) For more information, see <i>Administering</i> .	4.1	4.2.1	4.1	4.2
TLS server with secure https NOTE: Releases 6.0 and 6.0.1 do not support this feature. For more information, see <i>Using CLI and EDM</i> .	5.1.2	5.1.2	5.1.2	5.1.2
TLS client for secure syslog NOTE: Releases 6.0 and 6.0.1 do not support this feature. For more information, see <i>Troubleshooting</i> .	5.1.2	5.1.2	5.1.2	5.1.2
Transparent Port UNI (T-UNI) For more information, see <i>Configuring Fabric Basics and Layer 2</i> <i>Services.</i>	3.1	4.2.1	4.2.1	4.2.1

TFTP server and client (IPv6) For more information, see <i>Administering.</i>	4.1	4.2.1	4.1	4.2
Unicast Reverse Path Forwarding (URPF) checking (IPv4 and IPv6) For more information, see <i>Configuring Security</i> .	5.0	5.0	5.0	5.0
Virtual Link Aggregation Control Protocol (VLACP) For more information, see <i>Configuring Link Aggregation, MLT,</i> <i>SMLT, and vIST</i> .	3.0	4.2.1	4.0	4.2
Virtual Router Redundancy Protocol (VRRP) For more information, see <i>Configuring IPv4 Routing</i> .	3.0	4.2.1	4.0	4.2
Virtualization with IPv4 Virtual Routing and Forwarding (VRF) - ARP - DHCP Relay - Inter-VRF Routing (static, dynamic, and policy) - Local routing - OSPFv2 - RIPv1 and v2 - Route policies - Static routing - VRRP For more information, see <i>Configuring IPv4 Routing</i> .	3.0	4.2.1	4.0	4.2
Increased VRF and Layer 3 VSN scaling For more information, see <i>Configuring IPv4 Routing</i> .	6.0	6.0	6.0	6.0
VRRPv3 for IPv4 and IPv6 For more information, see <i>Configuring IPv4 Routing</i> and <i>Configuring IPv6 Routing</i> .	5.1	5.1	5.1	5.1
VXLAN Gateway For more information, see <i>Configuring VLANs, Spanning Tree, and</i> <i>NLB</i> .	n/a	6.0	6.0	6.0

Chapter 17: MIB changes in this release The following tables identify when MIB objects are first deprecated, added, or made obsolete. Deprecated MIBs New MIBs Obsolete MIBs

Deprecated MIBs

Object Name	Object OID	Deprecated in Release
msdpRequestsTable	1.3.6.1.3.92.1.1.4	6.0
msdpRequestsEntry	1.3.6.1.3.92.1.1.4.1	6.0
msdpRequestsGroupAddress	1.3.6.1.3.92.1.1.4.1.1	6.0
msdpRequestsGroupMask	1.3.6.1.3.92.1.1.4.1.2	6.0
msdpRequestsPeer	1.3.6.1.3.92.1.1.4.1.3	6.0
msdpRequestsStatus	1.3.6.1.3.92.1.1.4.1.4	6.0
msdpPeerInSAResponses	1.3.6.1.3.92.1.1.5.1.9	6.0
msdpPeerOutSAResponses	1.3.6.1.3.92.1.1.5.1.10	6.0
msdpPeerProcessRequestsFrom	1.3.6.1.3.92.1.1.5.1.24	6.0
msdpPeerInNotifications	1.3.6.1.3.92.1.1.5.1.31	6.0
msdpPeerOutNotifications	1.3.6.1.3.92.1.1.5.1.32	6.0
msdpPeerLastError	1.3.6.1.3.92.1.1.5.1.33	6.0
msdpMIBPeerGroup	1.3.6.1.3.92.1.1.8.2.2	6.0
msdpMIBRequestsGroup	1.3.6.1.3.92.1.1.8.2.6	6.0
rclsisLogicalInterfaceNextHopIfIndex	1.3.6.1.4.1.2272.1.63.26.1.11	6.0
rclsisLogicalInterfaceNextHopVid	1.3.6.1.4.1.2272.1.63.26.1.12	6.0
rcMsdpPeerAsNumber	1.3.6.1.4.1.2272.1.80.1.1.2.1.1	6.0
rcMsdpSACacheTable	1.3.6.1.4.1.2272.1.80.1.1.3	6.0
rcVlanIpsecEnable	1.3.6.1.4.1.2272.1.3.2.1.64	6.1
rcPortIpsecEnable	1.3.6.1.4.1.2272.1.4.10.1.1.113	6.1

New MIBs

Object Name	Object OID	New in Release
msdpMIB	1.3.6.1.3.92	6.0
msdpMIBobjects	1.3.6.1.3.92.1	6.0
msdp	1.3.6.1.3.92.1.1	6.0
msdpTraps	1.3.6.1.3.92.1.1.0	6.0
msdpEstablished	1.3.6.1.3.92.1.1.0.1	6.0
msdpBackwardTransition	1.3.6.1.3.92.1.1.0.2	6.0
msdpEnabled	1.3.6.1.3.92.1.1.1	6.0
msdpRPAddress	1.3.6.1.3.92.1.1.11	6.0
msdpMeshGroupTable	1.3.6.1.3.92.1.1.12	6.0
msdpMeshGroupEntry	1.3.6.1.3.92.1.1.12.1	6.0
msdpMeshGroupName	1.3.6.1.3.92.1.1.12.1.1	6.0
msdpMeshGroupPeerAddress	1.3.6.1.3.92.1.1.12.1.2	6.0
msdpMeshGroupStatus	1.3.6.1.3.92.1.1.12.1.3	6.0
msdpCacheLifetime	1.3.6.1.3.92.1.1.2	6.0
msdpNumSACacheEntries	1.3.6.1.3.92.1.1.3	6.0
msdpPeerTable	1.3.6.1.3.92.1.1.5	6.0
msdpPeerEntry	1.3.6.1.3.92.1.1.5.1	6.0
msdpPeerRemoteAddress	1.3.6.1.3.92.1.1.5.1.1	6.0
msdpPeerOutSAResponses	1.3.6.1.3.92.1.1.5.1.10	6.0
msdpPeerInControlMessages	1.3.6.1.3.92.1.1.5.1.11	6.0
msdpPeerOutControlMessages	1.3.6.1.3.92.1.1.5.1.12	6.0
msdpPeerInDataPackets	1.3.6.1.3.92.1.1.5.1.13	6.0
msdpPeerOutDataPackets	1.3.6.1.3.92.1.1.5.1.14	6.0
msdpPeerFsmEstablishedTransitions	1.3.6.1.3.92.1.1.5.1.15	6.0
msdpPeerFsmEstablishedTime	1.3.6.1.3.92.1.1.5.1.16	6.0
msdpPeerInMessageTime	1.3.6.1.3.92.1.1.5.1.17	6.0
msdpPeerLocalAddress	1.3.6.1.3.92.1.1.5.1.18	6.0
msdpPeerConnectRetryInterval	1.3.6.1.3.92.1.1.5.1.20	6.0
msdpPeerHoldTimeConfigured	1.3.6.1.3.92.1.1.5.1.21	6.0
msdpPeerKeepAliveConfigured	1.3.6.1.3.92.1.1.5.1.22	6.0
msdpPeerDataTtl	1.3.6.1.3.92.1.1.5.1.23	6.0
msdpPeerProcessRequestsFrom	1.3.6.1.3.92.1.1.5.1.24	6.0
msdpPeerStatus	1.3.6.1.3.92.1.1.5.1.25	6.0
msdpPeerRemotePort	1.3.6.1.3.92.1.1.5.1.26	6.0
msdpPeerLocalPort	1.3.6.1.3.92.1.1.5.1.27	6.0
msdpPeerEncapsulationType	1.3.6.1.3.92.1.1.5.1.29	6.0
msdpPeerState	1.3.6.1.3.92.1.1.5.1.3	6.0
msdpPeerConnectionAttempts	1.3.6.1.3.92.1.1.5.1.30	6.0
msdpPeerInNotifications	1.3.6.1.3.92.1.1.5.1.31	6.0
msdpPeerOutNotifications	1.3.6.1.3.92.1.1.5.1.32	6.0
msdpPeerLastError	1.3.6.1.3.92.1.1.5.1.33	6.0

msdpPeerDiscontinuityTime	1.3.6.1.3.92.1.1.5.1.34	6.0
msdpPeerRPFFailures	1.3.6.1.3.92.1.1.5.1.4	6.0
msdpPeerInSAs	1.3.6.1.3.92.1.1.5.1.5	6.0
msdpPeerOutSAs	1.3.6.1.3.92.1.1.5.1.6	6.0
msdpPeerInSARequests	1.3.6.1.3.92.1.1.5.1.7	6.0
msdpPeerOutSARequests	1.3.6.1.3.92.1.1.5.1.8	6.0
msdpPeerInSAResponses	1.3.6.1.3.92.1.1.5.1.9	6.0
msdpSACacheTable	1.3.6.1.3.92.1.1.6	6.0
msdpSACacheEntry	1.3.6.1.3.92.1.1.6.1	6.0
msdpSACacheGroupAddr	1.3.6.1.3.92.1.1.6.1.1	6.0
msdpSACacheStatus	1.3.6.1.3.92.1.1.6.1.10	6.0
msdpSACacheSourceAddr msdpSACacheOriginRP	1.3.6.1.3.92.1.1.6.1.2 1.3.6.1.3.92.1.1.6.1.3	6.0
msdpSACachePeerLearnedFrom	1.3.6.1.3.92.1.1.6.1.4	6.0
msdpSACacheRPFPeer	1.3.6.1.3.92.1.1.6.1.5	6.0
msdpSACacheInSAs	1.3.6.1.3.92.1.1.6.1.6	6.0
msdpSACacheInDataPackets	1.3.6.1.3.92.1.1.6.1.7	6.0
msdpSACacheUpTime	1.3.6.1.3.92.1.1.6.1.8	6.0
msdpSACacheExpiryTime	1.3.6.1.3.92.1.1.6.1.9	6.0
msdpMIBConformance	1.3.6.1.3.92.1.1.8	6.0
msdpMIBCompliances	1.3.6.1.3.92.1.1.8.1	6.0
msdpMIBCompliance	1.3.6.1.3.92.1.1.8.1.1	6.0
msdpMIBFullCompliance	1.3.6.1.3.92.1.1.8.1.2	6.0
msdpMIBReadOnlyCompliance	1.3.6.1.3.92.1.1.8.1.3	6.0
msdpMIBGroups msdpMIBGlobalsGroup	1.3.6.1.3.92.1.1.8.2 1.3.6.1.3.92.1.1.8.2.1	6.0
msdpMIBEncapsulationGroup	1.3.6.1.3.92.1.1.8.2.3	6.0
msdpMIBSACacheGroup	1.3.6.1.3.92.1.1.8.2.4	6.0
msdpMIBNotificationGroup	1.3.6.1.3.92.1.1.8.2.5	6.0
msdpMIBRPGroup	1.3.6.1.3.92.1.1.8.2.7	6.0
msdpMIBMeshGroupGroup	1.3.6.1.3.92.1.1.8.2.8	6.0
msdpMIBPeerGroup2	1.3.6.1.3.92.1.1.8.2.9	6.0
sflow	1.3.6.1.4.1.14706	6.0
sFlowMIB	1.3.6.1.4.1.14706.1	6.0
sFlowAgent	1.3.6.1.4.1.14706.1.1	6.0
sFlowRcvrTable	1.3.6.1.4.1.14706.1.1.4	6.0
sFlowRcvrEntry	1.3.6.1.4.1.14706.1.1.4.1	6.0
sFlowRcvrIndex sFlowRcvrOwner	1.3.6.1.4.1.14706.1.1.4.1.1 1.3.6.1.4.1.14706.1.1.4.1.2	6.0
sFlowRcvrTimeout	1.3.6.1.4.1.14706.1.1.4.1.2	6.0
sFlowRcvrMaximumDatagramSize	1.3.6.1.4.1.14706.1.1.4.1.4	6.0
sFlowRcvrAddressType	1.3.6.1.4.1.14706.1.1.4.1.5	6.0
sFlowRcvrAddress	1.3.6.1.4.1.14706.1.1.4.1.6	6.0
sFlowRcvrPort	1.3.6.1.4.1.14706.1.1.4.1.7	6.0
sFlowRcvrDatagramVersion	1.3.6.1.4.1.14706.1.1.4.1.8	6.0
sFlowFsTable	1.3.6.1.4.1.14706.1.1.5	6.0
sFlowFsEntry	1.3.6.1.4.1.14706.1.1.5.1	6.0
sFlowFsDataSource	1.3.6.1.4.1.14706.1.1.5.1.1	6.0
sFlowFsInstance	1.3.6.1.4.1.14706.1.1.5.1.2	6.0
sFlowFsReceiver sFlowFsPacketSamplingRate	1.3.6.1.4.1.14706.1.1.5.1.3 1.3.6.1.4.1.14706.1.1.5.1.4	6.0
sFlowFsMaximumHeaderSize	1.3.6.1.4.1.14706.1.1.5.1.5	6.0
sFlowCpTable	1.3.6.1.4.1.14706.1.1.6	6.0
sFlowCpEntry	1.3.6.1.4.1.14706.1.1.6.1	6.0
sFlowCpDataSource	1.3.6.1.4.1.14706.1.1.6.1.1	6.0
sFlowCpInstance	1.3.6.1.4.1.14706.1.1.6.1.2	6.0
sFlowCpReceiver	1.3.6.1.4.1.14706.1.1.6.1.3	6.0
sFlowCpInterval	1.3.6.1.4.1.14706.1.1.6.1.4	6.0
rc2kBootConfigEnableVxlanGwFullInterworkingMode	1.3.6.1.4.1.2272.1.100.5.1.52	6.0
rc2kBootConfigEnableDvrLeafMode	1.3.6.1.4.1.2272.1.100.5.1.54	6.0
rcBridgeVnidFdbTable rcBridgeVnidFdbEntry	1.3.6.1.4.1.2272.1.14.24	6.0
rcBridgeVnidFdbEntry rcBridgeVnidFdbVnid	1.3.6.1.4.1.2272.1.14.24.1 1.3.6.1.4.1.2272.1.14.24.1.1	6.0
rcBridgeVnidFdbVnid rcBridgeVnidFdbAddress	1.3.6.1.4.1.2272.1.14.24.1.1	6.0
rcBridgeVnidFdbStatus	1.3.6.1.4.1.2272.1.14.24.1.2	6.0
rcBridgeVnidFdbInterfaceIndex	1.3.6.1.4.1.2272.1.14.24.1.4	6.0
rcBridgeVnidFdbType	1.3.6.1.4.1.2272.1.14.24.1.5	6.0
rcPrFilterAceMonitoringIsidOffset	1.3.6.1.4.1.2272.1.202.1.1.2.4.1.1.32	6.0
rcPrFilterAceMonitoringIsid	1.3.6.1.4.1.2272.1.202.1.1.2.4.1.1.33	6.0
rcPrFilterAceMirroringQos	1.3.6.1.4.1.2272.1.202.1.1.2.4.1.1.34	6.0
rcPrFilterAceRemoveTag	1.3.6.1.4.1.2272.1.202.1.1.2.4.1.1.35	6.0
rcPrFilterAceProtoShowIcmpv6MsgTypeList	1.3.6.1.4.1.2272.1.202.1.1.2.4.27.1.24	6.0
rcPrFilterAceProtoShowIcmpv6MsgTypeOper	1.3.6.1.4.1.2272.1.202.1.1.2.4.27.1.25	6.0
rcPrFilterAceProtoIcmpv6MsgTypeTable	1.3.6.1.4.1.2272.1.202.1.1.2.4.38.1	6.0
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rcSflowAgentAddress 1.3.6.1.4.1.2272.1.221.1.1.1.3 6.0 rcSflowStatsTable 1.3.6.1.4.1.2272.1.221.1.1.2 6.0 rcSflowStatsTable 1.3.6.1.4.1.2272.1.221.1.1.2 6.0 rcSflowStatsEntry 1.3.6.1.4.1.2272.1.221.1.1.2.1 6.0 rcSflowStatsIndex 1.3.6.1.4.1.2272.1.221.1.1.2.1 6.0 rcSflowStatsDatagramCount 1.3.6.1.4.1.2272.1.221.1.1.2.1.2 6.0 rcSflowStatsClearStats 1.3.6.1.4.1.2272.1.221.1.1.2.1.3 6.0 rcDiagMirrorMonitoringIsidOffset 1.3.6.1.4.1.2272.1.23.1.1.21 6.0 rcDiagMirrorMonitoringIsid 1.3.6.1.4.1.2272.1.23.1.1.22 6.0			
rcSflowStatsTable 1.3.6.1.4.1.2272.1.221.1.1.2 6.0 rcSflowStatsEntry 1.3.6.1.4.1.2272.1.221.1.1.2.1 6.0 rcSflowStatsIndex 1.3.6.1.4.1.2272.1.221.1.1.2.1 6.0 rcSflowStatsIndex 1.3.6.1.4.1.2272.1.221.1.1.2.1.1 6.0 rcSflowStatsDatagramCount 1.3.6.1.4.1.2272.1.221.1.1.2.1.2 6.0 rcSflowStatsClearStats 1.3.6.1.4.1.2272.1.221.1.1.2.1.3 6.0 rcDiagMirrorMonitoringIsidOffset 1.3.6.1.4.1.2272.1.23.1.1.21 6.0 rcDiagMirrorMonitoringIsid 1.3.6.1.4.1.2272.1.23.1.1.22 6.0			
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rcDiagMirrorMonitoringIsidOffset 1.3.6.1.4.1.2272.1.23.1.1.21 6.0 rcDiagMirrorMonitoringIsid 1.3.6.1.4.1.2272.1.23.1.1.22 6.0			
rcDiagMirrorMonitoringIsid 1.3.6.1.4.1.2272.1.23.1.1.22 6.0			
ICDIAQIVIITOTVIITO	rcDiagMirrorMirroringQos	1.3.6.1.4.1.2272.1.23.1.1.23	6.0

rcDiagMonitorByIsidTable	1.3.6.1.4.1.2272.1.23.18	6.0
rcDiagMonitorByIsidEntry	1.3.6.1.4.1.2272.1.23.18.1	6.0
rcDiagMonitorByIsidIndex	1.3.6.1.4.1.2272.1.23.18.1.1	6.0
rcDiagMonitorByIsidMonitorIsidOffset	1.3.6.1.4.1.2272.1.23.18.1.2	6.0
rcDiagMonitorByIsidMonitorIsid	1.3.6.1.4.1.2272.1.23.18.1.3	6.0
rcDiagMonitorByIsidEgressPortList	1.3.6.1.4.1.2272.1.23.18.1.4	6.0
		6.0
rcDiagMonitorByIsidEgressMltId	1.3.6.1.4.1.2272.1.23.18.1.5	
rcDiagMonitorBylsidMapToVlanId	1.3.6.1.4.1.2272.1.23.18.1.6	6.0
rcDiagMonitorByIsidEnable	1.3.6.1.4.1.2272.1.23.18.1.8	6.0
rcDiagMonitorByIsidRowStatus	1.3.6.1.4.1.2272.1.23.18.1.9	6.0
rcDiagIsidMirroringStatsTable	1.3.6.1.4.1.2272.1.23.19	6.0
rcDiagIsidMirroringStatsEntry	1.3.6.1.4.1.2272.1.23.19.1	6.0
rcDiagIsidMirroringStatsIndex	1.3.6.1.4.1.2272.1.23.19.1.1	6.0
		6.0
rcDiagIsidMirroringStatsMonitorIsid	1.3.6.1.4.1.2272.1.23.19.1.2	
rcDiagIsidMirroringStatsMirroredPackets	1.3.6.1.4.1.2272.1.23.19.1.3	6.0
rcDiagIsidMirroringStatsClearStats	1.3.6.1.4.1.2272.1.23.19.1.4	6.0
rcVlanPimGatewayEnable	1.3.6.1.4.1.2272.1.3.2.1.73	6.0
rcVlanDvrEnable	1.3.6.1.4.1.2272.1.3.2.1.76	6.0
rcVlanDvrGwlpv4Addr	1.3.6.1.4.1.2272.1.3.2.1.77	6.0
rclsisGlobalBackboneEnable	1.3.6.1.4.1.2272.1.63.1.22	6.0
rclsisLogicalInterfaceNextHopTable	1.3.6.1.4.1.2272.1.63.28	6.0
rclsisLogicalInterfaceNextHopEntry	1.3.6.1.4.1.2272.1.63.28.1	6.0
rclsisLogicalInterfaceNextHopId	1.3.6.1.4.1.2272.1.63.28.1.1	6.0
rclsisLogicalInterfaceNextHopIp	1.3.6.1.4.1.2272.1.63.28.1.2	6.0
rclsisLogicalInterfaceNextHopDestIfIndex	1.3.6.1.4.1.2272.1.63.28.1.3	6.0
rclsisLogicalInterfaceNextHopDestVid	1.3.6.1.4.1.2272.1.63.28.1.4	6.0
rclsisPlsbMcastSpbPimGwControllerEnable	1.3.6.1.4.1.2272.1.63.4.1.15	6.0
rclsisPlsbMcastSpbPimGwGatewayEnable	1.3.6.1.4.1.2272.1.63.4.1.16	6.0
rclpConfPimGatewayEnable	1.3.6.1.4.1.2272.1.8.1.1.1.30	6.0
rclpSpbPimGw	1.3.6.1.4.1.2272.1.8.114	6.0
rclpSpbPimGwGlobal	1.3.6.1.4.1.2272.1.8.114.1	6.0
rclpSpbPimGwGlobalHelloInterval	1.3.6.1.4.1.2272.1.8.114.1.1	6.0
rclpSpbPimGwGlobalJoinPruneInterval	1.3.6.1.4.1.2272.1.8.114.1.2	6.0
rclpSpbPimGwInterfaceTable	1.3.6.1.4.1.2272.1.8.114.2	6.0
rclpSpbPimGwInterfaceEntry	1.3.6.1.4.1.2272.1.8.114.2.1	6.0
rclpSpbPimGwInterfaceIfIndex	1.3.6.1.4.1.2272.1.8.114.2.1.1	6.0
rclpSpbPimGwInterfaceOperState	1.3.6.1.4.1.2272.1.8.114.2.1.2	6.0
rclpSpbPimGwInterfaceAddressType	1.3.6.1.4.1.2272.1.8.114.2.1.3	6.0
rclpSpbPimGwInterfaceAddress	1.3.6.1.4.1.2272.1.8.114.2.1.4	6.0
rclpSpbPimGwInterfaceAddressMask	1.3.6.1.4.1.2272.1.8.114.2.1.5	6.0
rclpSpbPimGwInterfaceHelloInterval	1.3.6.1.4.1.2272.1.8.114.2.1.6	6.0
rclpSpbPimGwInterfaceJoinPruneInterval	1.3.6.1.4.1.2272.1.8.114.2.1.7	6.0
rclpSpbPimGwNeighborTable	1.3.6.1.4.1.2272.1.8.114.3	6.0
rclpSpbPimGwNeighborEntry	1.3.6.1.4.1.2272.1.8.114.3.1	6.0
rclpSpbPimGwNeighborlfIndex	1.3.6.1.4.1.2272.1.8.114.3.1.1	6.0
rclpSpbPimGwNeighborAddressType	1.3.6.1.4.1.2272.1.8.114.3.1.2	6.0
rclpSpbPimGwNeighborAddress	1.3.6.1.4.1.2272.1.8.114.3.1.3	6.0
rclpSpbPimGwNeighborUpTime	1.3.6.1.4.1.2272.1.8.114.3.1.4	6.0
rclpSpbPimGwNeighborExpiryTime	1.3.6.1.4.1.2272.1.8.114.3.1.5	6.0
rclpSpbPimGwControllerForeignSrcTable	1.3.6.1.4.1.2272.1.8.114.4	6.0
rclpSpbPimGwControllerForeignSrcEntry	1.3.6.1.4.1.2272.1.8.114.4.1	6.0
rclpSpbPimGwControllerForeignSrcSourceAddress	1.3.6.1.4.1.2272.1.8.114.4.1.1	6.0
rclpSpbPimGwControllerForeignSrcGroupAddress	1.3.6.1.4.1.2272.1.8.114.4.1.2	6.0
rclpSpbPimGwControllerForeignSrcRowStatus	1.3.6.1.4.1.2272.1.8.114.4.1.3	6.0
rclpSpbPimGwControllerForeignSrcGatewaySysId	1.3.6.1.4.1.2272.1.8.114.4.1.4	6.0
		6.0
rclpSpbPimGwControllerForeignSrcGatewayHostNam		
rclpSpbPimGwControllerForeignSrcType	1.3.6.1.4.1.2272.1.8.114.4.1.6	6.0
rclpSpbPimGwControllerForeignSrcOwner	1.3.6.1.4.1.2272.1.8.114.4.1.7	6.0
rclpSpbPimGwControllerSpbmcSrcTable	1.3.6.1.4.1.2272.1.8.114.5	6.0
rclpSpbPimGwControllerSpbmcSrcEntry	1.3.6.1.4.1.2272.1.8.114.5.1	6.0
rclpSpbPimGwControllerSpbmcSrcSourceAddress	1.3.6.1.4.1.2272.1.8.114.5.1.1	6.0
rclpSpbPimGwControllerSpbmcSrcGroupAddress	1.3.6.1.4.1.2272.1.8.114.5.1.2	6.0
rclpSpbPimGwControllerSpbmcSrcOriginatorSysId	1.3.6.1.4.1.2272.1.8.114.5.1.3	6.0
rclpSpbPimGwControllerSpbmcSrcOriginatorHostNam		6.0
		6.0
rclpSpbPimGwGatewayForeignSrcTable	1.3.6.1.4.1.2272.1.8.114.6	
rcIpSpbPimGwGatewayForeignSrcTable rcIpSpbPimGwGatewayForeignSrcEntry	1.3.6.1.4.1.2272.1.8.114.6.1	6.0
	1.3.6.1.4.1.2272.1.8.114.6.1	
rclpSpbPimGwGatewayForeignSrcEntry rclpSpbPimGwGatewayForeignSrcSourceAddress	1.3.6.1.4.1.2272.1.8.114.6.1 1.3.6.1.4.1.2272.1.8.114.6.1.1	6.0 6.0
rclpSpbPimGwGatewayForeignSrcEntry rclpSpbPimGwGatewayForeignSrcSourceAddress rclpSpbPimGwGatewayForeignSrcGroupAddress	1.3.6.1.4.1.2272.1.8.114.6.1 1.3.6.1.4.1.2272.1.8.114.6.1.1 1.3.6.1.4.1.2272.1.8.114.6.1.2	6.0 6.0 6.0
rclpSpbPimGwGatewayForeignSrcEntry rclpSpbPimGwGatewayForeignSrcSourceAddress rclpSpbPimGwGatewayForeignSrcGroupAddress rclpSpbPimGwGatewayForeignSrcControllerSysId	1.3.6.1.4.1.2272.1.8.114.6.1 1.3.6.1.4.1.2272.1.8.114.6.1.1 1.3.6.1.4.1.2272.1.8.114.6.1.2 1.3.6.1.4.1.2272.1.8.114.6.1.3	6.0 6.0 6.0 6.0
rclpSpbPimGwGatewayForeignSrcEntry rclpSpbPimGwGatewayForeignSrcSourceAddress rclpSpbPimGwGatewayForeignSrcGroupAddress rclpSpbPimGwGatewayForeignSrcControllerSysId rclpSpbPimGwGatewayForeignSrcControllerHostNam	1.3.6.1.4.1.2272.1.8.114.6.1 1.3.6.1.4.1.2272.1.8.114.6.1.1 1.3.6.1.4.1.2272.1.8.114.6.1.2 1.3.6.1.4.1.2272.1.8.114.6.1.3 1.3.6.1.4.1.2272.1.8.114.6.1.4	6.0 6.0 6.0 6.0 6.0 6.0
rclpSpbPimGwGatewayForeignSrcEntry rclpSpbPimGwGatewayForeignSrcSourceAddress rclpSpbPimGwGatewayForeignSrcGroupAddress rclpSpbPimGwGatewayForeignSrcControllerSysId rclpSpbPimGwGatewayForeignSrcControllerHostNam rclpSpbPimGwGatewayForeignSrcGatewaySysId	1.3.6.1.4.1.2272.1.8.114.6.1 1.3.6.1.4.1.2272.1.8.114.6.1.1 1.3.6.1.4.1.2272.1.8.114.6.1.2 1.3.6.1.4.1.2272.1.8.114.6.1.3 1.3.6.1.4.1.2272.1.8.114.6.1.4 1.3.6.1.4.1.2272.1.8.114.6.1.4	6.0 6.0 6.0 6.0 6.0 6.0 6.0
rclpSpbPimGwGatewayForeignSrcEntry rclpSpbPimGwGatewayForeignSrcSourceAddress rclpSpbPimGwGatewayForeignSrcGroupAddress rclpSpbPimGwGatewayForeignSrcControllerSysId rclpSpbPimGwGatewayForeignSrcControllerHostNam rclpSpbPimGwGatewayForeignSrcGatewaySysId rclpSpbPimGwGatewayForeignSrcGatewayHostName	1.3.6.1.4.1.2272.1.8.114.6.1 1.3.6.1.4.1.2272.1.8.114.6.1.1 1.3.6.1.4.1.2272.1.8.114.6.1.2 1.3.6.1.4.1.2272.1.8.114.6.1.3 1.3.6.1.4.1.2272.1.8.114.6.1.4 1.3.6.1.4.1.2272.1.8.114.6.1.5 1.3.6.1.4.1.2272.1.8.114.6.1.5	6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0
rclpSpbPimGwGatewayForeignSrcEntry rclpSpbPimGwGatewayForeignSrcSourceAddress rclpSpbPimGwGatewayForeignSrcGroupAddress rclpSpbPimGwGatewayForeignSrcControllerSysId rclpSpbPimGwGatewayForeignSrcControllerHostNam rclpSpbPimGwGatewayForeignSrcGatewaySysId	1.3.6.1.4.1.2272.1.8.114.6.1 1.3.6.1.4.1.2272.1.8.114.6.1.1 1.3.6.1.4.1.2272.1.8.114.6.1.2 1.3.6.1.4.1.2272.1.8.114.6.1.3 1.3.6.1.4.1.2272.1.8.114.6.1.4 1.3.6.1.4.1.2272.1.8.114.6.1.4	6.0 6.0 6.0 6.0 6.0 6.0 6.0
rclpSpbPimGwGatewayForeignSrcEntry rclpSpbPimGwGatewayForeignSrcSourceAddress rclpSpbPimGwGatewayForeignSrcGroupAddress rclpSpbPimGwGatewayForeignSrcControllerSysId rclpSpbPimGwGatewayForeignSrcControllerHostNam rclpSpbPimGwGatewayForeignSrcGatewaySysId rclpSpbPimGwGatewayForeignSrcGatewayHostName	1.3.6.1.4.1.2272.1.8.114.6.1 1.3.6.1.4.1.2272.1.8.114.6.1.1 1.3.6.1.4.1.2272.1.8.114.6.1.2 1.3.6.1.4.1.2272.1.8.114.6.1.3 1.3.6.1.4.1.2272.1.8.114.6.1.4 1.3.6.1.4.1.2272.1.8.114.6.1.5 1.3.6.1.4.1.2272.1.8.114.6.1.5	6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0
rclpSpbPimGwGatewayForeignSrcEntry rclpSpbPimGwGatewayForeignSrcSourceAddress rclpSpbPimGwGatewayForeignSrcGroupAddress rclpSpbPimGwGatewayForeignSrcControllerSysId rclpSpbPimGwGatewayForeignSrcControllerHostNam rclpSpbPimGwGatewayForeignSrcGatewaySysId rclpSpbPimGwGatewayForeignSrcGatewayHostName rclpSpbPimGwGatewayForeignSrcGatewayHostName	1.3.6.1.4.1.2272.1.8.114.6.1 1.3.6.1.4.1.2272.1.8.114.6.1.1 1.3.6.1.4.1.2272.1.8.114.6.1.2 1.3.6.1.4.1.2272.1.8.114.6.1.3 1.3.6.1.4.1.2272.1.8.114.6.1.3 1.3.6.1.4.1.2272.1.8.114.6.1.5 1.3.6.1.4.1.2272.1.8.114.6.1.5 1.3.6.1.4.1.2272.1.8.114.6.1.6 1.3.6.1.4.1.2272.1.8.114.6.1.6	6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0

rcMRouteExt		
	1.3.6.1.4.1.2272.1.8.115	6.0
rcMRouteExtTable	1.3.6.1.4.1.2272.1.8.115.1	6.0
rcMRouteExtEntry	1.3.6.1.4.1.2272.1.8.115.1.1	6.0
rcMRouteExtProtocol	1.3.6.1.4.1.2272.1.8.115.1.1.1	6.0
rcMRouteExtNextHopTable	1.3.6.1.4.1.2272.1.8.115.2	6.0
rcMRouteExtNextHopEntry	1.3.6.1.4.1.2272.1.8.115.2.1	6.0
rcMRouteExtNextHopProtocol	1.3.6.1.4.1.2272.1.8.115.2.1.1	6.0
rcMRouteExtNextHopL2Isid	1.3.6.1.4.1.2272.1.8.115.2.1.2	6.0
rcMRouteExtInterfaceTable	1.3.6.1.4.1.2272.1.8.115.3	6.0
rcMRouteExtInterfaceEntry	1.3.6.1.4.1.2272.1.8.115.3.1	6.0
rcMRouteExtInterfaceProtocol	1.3.6.1.4.1.2272.1.8.115.3.1.1	6.0
rcMsdp	1.3.6.1.4.1.2272.1.80	6.0
rcMsdp	1.3.6.1.4.1.2272.1.80	6.0
rcMsdpMib	1.3.6.1.4.1.2272.1.80.1	6.0
rcMsdpMib	1.3.6.1.4.1.2272.1.80.1	6.0
rcMsdpObjects	1.3.6.1.4.1.2272.1.80.1.1	6.0
rcMsdpScalars	1.3.6.1.4.1.2272.1.80.1.1.1	6.0
rcMsdpRouteMapName	1.3.6.1.4.1.2272.1.80.1.1.1.1	6.0
rcMsdpRedistributeFilterEnabled	1.3.6.1.4.1.2272.1.80.1.1.1.2	6.0
rcMsdpRedistributeFilterApply	1.3.6.1.4.1.2272.1.80.1.1.1.3	6.0
rcMsdpImplicitDefaultPeerEnabled	1.3.6.1.4.1.2272.1.80.1.1.1.4	6.0
rcMsdpSACacheClear	1.3.6.1.4.1.2272.1.80.1.1.1.6	6.0
rcMsdpStatsClear	1.3.6.1.4.1.2272.1.80.1.1.1.7	6.0
rcMsdpPeerTable	1.3.6.1.4.1.2272.1.80.1.1.2	6.0
rcMsdpPeerEntry	1.3.6.1.4.1.2272.1.80.1.1.2.1	6.0
rcMsdpPeerAsNumber	1.3.6.1.4.1.2272.1.80.1.1.2.1.1	6.0
rcMsdpPeerDescription	1.3.6.1.4.1.2272.1.80.1.1.2.1.10	6.0
rcMsdpPeerSALimit	1.3.6.1.4.1.2272.1.80.1.1.2.1.11	6.0
rcMsdpPeerMd5AuthEnabled	1.3.6.1.4.1.2272.1.80.1.1.2.1.12	6.0
rcMsdpPeerMd5AuthPassword	1.3.6.1.4.1.2272.1.80.1.1.2.1.13	6.0
rcMsdpPeerSAsLearnedFromThisPeer	1.3.6.1.4.1.2272.1.80.1.1.2.1.14	6.0
rcMsdpPeerSAsAdvertisedToThisPeer	1.3.6.1.4.1.2272.1.80.1.1.2.1.15	6.0
rcMsdpPeerUpOrDownTime	1.3.6.1.4.1.2272.1.80.1.1.2.1.16	6.0
rcMsdpPeerConnAndStatsClearedTime	1.3.6.1.4.1.2272.1.80.1.1.2.1.17	6.0
rcMsdpPeerRouteMapName	1.3.6.1.4.1.2272.1.80.1.1.2.1.18	6.0
rcMsdpPeerAdminEnabled	1.3.6.1.4.1.2272.1.80.1.1.2.1.19	6.0
rcMsdpPeerTooShortMessages	1.3.6.1.4.1.2272.1.80.1.1.2.1.2	6.0
rcMsdpPeerOperEnabled	1.3.6.1.4.1.2272.1.80.1.1.2.1.20	6.0
rcMsdpPeerClearPeer	1.3.6.1.4.1.2272.1.80.1.1.2.1.20	6.0
rcMsdpPeer4ByteAsNumber	1.3.6.1.4.1.2272.1.80.1.1.2.1.24	6.0
rcMsdpPeerInBadMessages	1.3.6.1.4.1.2272.1.80.1.1.2.1.3	6.0
rcMsdpPeerInKeepAliveMessages	1.3.6.1.4.1.2272.1.80.1.1.2.1.3	6.0
	1.3.6.1.4.1.2272.1.80.1.1.2.1.4	6.0
rcMsdpPeerOutKeepAliveMessages rcMsdpPeerInSAFilterEnabled	1.3.6.1.4.1.2272.1.80.1.1.2.1.5	6.0
rcMsdpPeerInSAFilterRouteMapName	1.3.6.1.4.1.2272.1.80.1.1.2.1.7	6.0
rcMsdpPeerOutSAFilterEnabled	1.3.6.1.4.1.2272.1.80.1.1.2.1.8	6.0
rcMsdpPeerOutSAFilterRouteMapName	1.3.6.1.4.1.2272.1.80.1.1.2.1.9	6.0
rcMsdpSACacheRecordsTable	1.3.6.1.4.1.2272.1.80.1.1.4	6.0
rcMsdpSACacheRecordsEntry	1.3.6.1.4.1.2272.1.80.1.1.4.1	6.0
rcMsdpSACacheRecordsTypeInformation	1.3.6.1.4.1.2272.1.80.1.1.4.1.1	6.0
rcMsdpSACacheRecordsGroupAddr	1.3.6.1.4.1.2272.1.80.1.1.4.1.2	6.0
rcMsdpSACacheRecordsSourceAddr	1.3.6.1.4.1.2272.1.80.1.1.4.1.3	6.0
rcMsdpSACacheRecordsOriginRP	1.3.6.1.4.1.2272.1.80.1.1.4.1.4	6.0
rcMsdpSACacheRecordsOriginatorAsNumber	1.3.6.1.4.1.2272.1.80.1.1.4.1.5	6.0
rcMsdpSACacheRecordsRouteType	1.3.6.1.4.1.2272.1.80.1.1.4.1.6	6.0
rcMsdpNotificationObjects	1.3.6.1.4.1.2272.1.80.1.2	6.0
rcMsdpSACacheType	1.3.6.1.4.1.2272.1.80.1.2.1	6.0
rcMsdpVrfld	1.3.6.1.4.1.2272.1.80.1.2.2	6.0
rcMACSecConnectivityAssociationTxKeyParity	1.3.6.1.4.1.2272.1.88.1.1.6	6.0
rcIkeProfileTable	1.3.6.1.4.1.2272.1.86.1	6.1
rclkeProfileEntry	1.3.6.1.4.1.2272.1.86.1.1	6.1
rcIkeProfileName	1.3.6.1.4.1.2272.1.86.1.1.1	6.1
rcIkeProfileHashAlgorithm	1.3.6.1.4.1.2272.1.86.1.1.2	6.1
rcIkeProfileEncryptionAlgorithm	1.3.6.1.4.1.2272.1.86.1.1.3	6.1
rcIkeProfileEncryptKeyLen	1.3.6.1.4.1.2272.1.86.1.1.4	6.1
rclkeProfileDHGroup	1.3.6.1.4.1.2272.1.86.1.1.5	6.1
rclkeProfileExchangeMode	1.3.6.1.4.1.2272.1.86.1.1.6	6.1
rcIkeProfileLifetimeSeconds	1.3.6.1.4.1.2272.1.86.1.1.7	6.1
rcIkeProfileRowStatus	1.3.6.1.4.1.2272.1.86.1.1.8	6.1
rcIkePolicyTable	1.3.6.1.4.1.2272.1.86.2	6.1
rclkePolicyEntry	1.3.6.1.4.1.2272.1.86.2.1	6.1
rclkePolicyLocalIfIndex	1.3.6.1.4.1.2272.1.86.2.1.1	6.1
rclkePolicyLocalAddrType	1.3.6.1.4.1.2272.1.86.2.1.2	6.1
rclkePolicyLocalAddr	1.3.6.1.4.1.2272.1.86.2.1.3	6.1

rcIkePolicyRemoteAddr	1.3.6.1.4.1.2272.1.86.2.1.5	6.1
rclkePolicyName	1.3.6.1.4.1.2272.1.86.2.1.6	6.1
rclkePolicyProfileName	1.3.6.1.4.1.2272.1.86.2.1.7	6.1
rclkePolicyAuthenticationMethod	1.3.6.1.4.1.2272.1.86.2.1.8	6.1
rclkePolicyPSKValue	1.3.6.1.4.1.2272.1.86.2.1.9	6.1
rclkePolicyDPDTimeout	1.3.6.1.4.1.2272.1.86.2.1.10	6.1
rclkePolicyP2PFS	1.3.6.1.4.1.2272.1.86.2.1.11	6.1
rclkePolicyP2PfsUseIkeGroup	1.3.6.1.4.1.2272.1.86.2.1.12	6.1
rclkePolicyP2PfsDHGroup	1.3.6.1.4.1.2272.1.86.2.1.13	6.1
rclkePolicyAdminState	1.3.6.1.4.1.2272.1.86.2.1.14	6.1
rclkePolicyOperStatus	1.3.6.1.4.1.2272.1.86.2.1.15	6.1
rcIkePolicyRowStatus rcIkePolicyRevocationCheckMethod	1.3.6.1.4.1.2272.1.86.2.1.16	6.1
rclkePolicyProfileVersion	1.3.6.1.4.1.2272.1.86.2.1.17 1.3.6.1.4.1.2272.1.86.2.1.18	6.1
rclkePolicyPeerName	1.3.6.1.4.1.2272.1.86.2.1.19	6.1
rclkeActiveSATable	1.3.6.1.4.1.2272.1.86.4	6.1
rclkeActiveSAEntry	1.3.6.1.4.1.2272.1.86.4.1	6.1
rclkeActiveSAId	1.3.6.1.4.1.2272.1.86.4.1.1	6.1
rclkeActiveSALocalIfIndex	1.3.6.1.4.1.2272.1.86.4.1.2	6.1
rclkeActiveSALocalAddrType	1.3.6.1.4.1.2272.1.86.4.1.3	6.1
rclkeActiveSALocalAddr	1.3.6.1.4.1.2272.1.86.4.1.4	6.1
rclkeActiveSARemoteAddrType	1.3.6.1.4.1.2272.1.86.4.1.5	6.1
rclkeActiveSARemoteAddr	1.3.6.1.4.1.2272.1.86.4.1.6	6.1
rclkeActiveSAName	1.3.6.1.4.1.2272.1.86.4.1.7	6.1
rclkeActiveSAAuthenticationMethod	1.3.6.1.4.1.2272.1.86.4.1.8	6.1
rclkeActiveSADPDTimeout	1.3.6.1.4.1.2272.1.86.4.1.9	6.1
rclkeActiveSAHashAlgorithm	1.3.6.1.4.1.2272.1.86.4.1.10	6.1
rclkeActiveSAEncryptionAlgorithm rclkeActiveSAEncryptKeyLen	1.3.6.1.4.1.2272.1.86.4.1.11 1.3.6.1.4.1.2272.1.86.4.1.12	<u> </u>
rclkeActiveSAEncryptKeyLen	1.3.6.1.4.1.2272.1.86.4.1.12	6.1
rclkeActiveSAExchangeMode	1.3.6.1.4.1.2272.1.86.4.1.14	6.1
rclkeActiveSALifetimeSeconds	1.3.6.1.4.1.2272.1.86.4.1.15	6.1
rclkeActiveSAStatus	1.3.6.1.4.1.2272.1.86.4.1.16	6.1
rclkeActiveSAInitiator	1.3.6.1.4.1.2272.1.86.4.1.17	6.1
rclkeV2ProfileTable	1.3.6.1.4.1.2272.1.86.5	6.1
rclkeV2ProfileEntry	1.3.6.1.4.1.2272.1.86.5.1	6.1
rclkeV2ProfileName	1.3.6.1.4.1.2272.1.86.5.1.1	6.1
rclkeV2ProfileHashAlgorithm	1.3.6.1.4.1.2272.1.86.5.1.2	6.1
rclkeV2ProfileEncryptionAlgorithm	1.3.6.1.4.1.2272.1.86.5.1.3	6.1
rclkeV2ProfileEncryptKeyLen	1.3.6.1.4.1.2272.1.86.5.1.4	6.1
rclkeV2ProfileDHGroup	1.3.6.1.4.1.2272.1.86.5.1.5	6.1
rclkeV2ProfileExchangeMode	1.3.6.1.4.1.2272.1.86.5.1.6	6.1
rclkeV2ProfileLifetimeSeconds rclkeV2ProfileIntegrityAlgorithm	1.3.6.1.4.1.2272.1.86.5.1.7 1.3.6.1.4.1.2272.1.86.5.1.8	6.1
rclkeV2ProfileRowStatus	1.3.6.1.4.1.2272.1.86.5.1.9	6.1
rclkeV2SATable	1.3.6.1.4.1.2272.1.86.6	6.1
rclkeV2SAEntry	1.3.6.1.4.1.2272.1.86.6.1	6.1
rclkeV2SAld	1.3.6.1.4.1.2272.1.86.6.1.1	6.1
rclkeV2SALocallfIndex	1.3.6.1.4.1.2272.1.86.6.1.2	6.1
rclkeV2SALocalAddrType	1.3.6.1.4.1.2272.1.86.6.1.3	6.1
rclkeV2SALocalAddr	1.3.6.1.4.1.2272.1.86.6.1.4	6.1
rclkeV2SARemoteAddrType	1.3.6.1.4.1.2272.1.86.6.1.5	6.1
rclkeV2SARemoteAddr	1.3.6.1.4.1.2272.1.86.6.1.6	6.1
rclkeV2SAName	1.3.6.1.4.1.2272.1.86.6.1.7	6.1
rclkeV2SAAuthenticationMethod	1.3.6.1.4.1.2272.1.86.6.1.8	6.1
rclkeV2SADPDTimeout	1.3.6.1.4.1.2272.1.86.6.1.9	6.1
rcIkeV2SAHashAlgorithm rcIkeV2SAEncryptionAlgorithm	1.3.6.1.4.1.2272.1.86.6.1.10 1.3.6.1.4.1.2272.1.86.6.1.11	<u> </u>
rclkeV2SAEncryptionAlgorithm	1.3.6.1.4.1.2272.1.86.6.1.11	6.1
rclkeV2SADHGroup	1.3.6.1.4.1.2272.1.86.6.1.13	6.1
rclkeV2SAExchangeMode	1.3.6.1.4.1.2272.1.86.6.1.14	6.1
rclkeV2SALifetimeSeconds	1.3.6.1.4.1.2272.1.86.6.1.15	6.1
rclkeV2SAStatus	1.3.6.1.4.1.2272.1.86.6.1.16	6.1
rclkeV2SAInitiator	1.3.6.1.4.1.2272.1.86.6.1.17	6.1
rclkeV2SAIntegrityAlgorithm	1.3.6.1.4.1.2272.1.86.6.1.18	6.1
rclpConflpsecEnable	1.3.6.1.4.1.2272.1.8.1.1.1.32	6.1
rcWebTlsMinimumVersion	1.3.6.1.4.1.2272.1.18.31	6.1
rcWebMinimumPasswordLength	1.3.6.1.4.1.2272.1.18.32	6.1
rclpv6InterfaceIpsecEnable	1.3.6.1.4.1.2272.1.62.1.1.2.1.30	6.1
rcSyslogHostSecureForwardingTcpPort	1.3.6.1.4.1.2272.1.22.2.1.23	6.1
rcSyslogHostSecureForwardingMode rcSyslogHostSecureForwardingServerCertName	1.3.6.1.4.1.2272.1.22.2.1.24	<u> </u>
rcSyslogRootCertificateTable	1.3.6.1.4.1.2272.1.22.2.1.25 1.3.6.1.4.1.2272.1.22.5	6.1
rcSyslogRootCertificateEntry	1.3.6.1.4.1.2272.1.22.5.1	6.1
rcSyslogRootCertificateFilename	1.3.6.1.4.1.2272.1.22.5.1.1	6.1
		0.1

rcSyslogRootCertificateAction	1.3.6.1.4.1.2272.1.22.5.1.2	6.1
rcSyslogRootCertificateRowStatus	1.3.6.1.4.1.2272.1.22.5.1.2	6.1
rcSshAuthType	1.3.6.1.4.1.2272.1.34.1.21	6.1
rcSshEncryptionType	1.3.6.1.4.1.2272.1.34.1.22	6.1
rcSshKeyExchangeMethod	1.3.6.1.4.1.2272.1.34.1.23	6.1
rcDigitalCert	1.3.6.1.4.1.2272.1.222	6.1
rcDigitalCertMib	1.3.6.1.4.1.2272.1.222.1	6.1
rcDigitalCertNotifications	1.3.6.1.4.1.2272.1.222.1.0	6.1
rcDigitalCertObjects	1.3.6.1.4.1.2272.1.222.1.1	6.1
rcDigitalCertScalars	1.3.6.1.4.1.2272.1.222.1.1.1	6.1
rcDigitalCertSubjectCommonName	1.3.6.1.4.1.2272.1.222.1.1.1.1	6.1
rcDigitalCertSubjectEmailAddress	1.3.6.1.4.1.2272.1.222.1.1.1.2	6.1
rcDigitalCertSubjectOrganizationalUnit	1.3.6.1.4.1.2272.1.222.1.1.1.3	6.1
rcDigitalCertSubjectOrganization	1.3.6.1.4.1.2272.1.222.1.1.1.4	6.1
rcDigitalCertSubjectLocality	1.3.6.1.4.1.2272.1.222.1.1.1.5	6.1
rcDigitalCertSubjectProvince	1.3.6.1.4.1.2272.1.222.1.1.1.6	6.1
rcDigitalCertSubjectCountry	1.3.6.1.4.1.2272.1.222.1.1.1.7	6.1
rcDigitalCertInstallFile	1.3.6.1.4.1.2272.1.222.1.1.1.8	6.1
rcDigitalCertInstallFileName	1.3.6.1.4.1.2272.1.222.1.1.1.9	6.1
rcDigitalCertUninstallFile	1.3.6.1.4.1.2272.1.222.1.1.1.10	6.1
rcDigitalCertUninstallFileName	1.3.6.1.4.1.2272.1.222.1.1.1.11	6.1
rcDigitalCertGenerateCsr rcDigitalCertKeyTable	1.3.6.1.4.1.2272.1.222.1.1.1.12 1.3.6.1.4.1.2272.1.222.1.1.2	6.1 6.1
rcDigitalCertKeyTable rcDigitalCertKeyEntry	1.3.6.1.4.1.2272.1.222.1.1.2	6.1
rcDigitalCertKeyEntry	1.3.6.1.4.1.2272.1.222.1.1.2.1	6.1
rcDigitalCertKeySize	1.3.6.1.4.1.2272.1.222.1.1.2.1.1	6.1
rcDigitalCertKeyName	1.3.6.1.4.1.2272.1.222.1.1.2.1.3	6.1
rcDigitalCertKeyRowStatus	1.3.6.1.4.1.2272.1.222.1.1.2.1.3	6.1
rcDigitalCertCaTable	1.3.6.1.4.1.2272.1.222.1.1.3	6.1
rcDigitalCertCaEntry	1.3.6.1.4.1.2272.1.222.1.1.3.1	6.1
rcDigitalCertCaName	1.3.6.1.4.1.2272.1.222.1.1.3.1.1	6.1
rcDigitalCertCaCommonName	1.3.6.1.4.1.2272.1.222.1.1.3.1.2	6.1
rcDigitalCertCaKeyName	1.3.6.1.4.1.2272.1.222.1.1.3.1.3	6.1
rcDigitalCertCaCaUrl	1.3.6.1.4.1.2272.1.222.1.1.3.1.4	6.1
rcDigitalCertCaAction	1.3.6.1.4.1.2272.1.222.1.1.3.1.5	6.1
rcDigitalCertCaActionChallengePassword	1.3.6.1.4.1.2272.1.222.1.1.3.1.6	6.1
rcDigitalCertCaLastActionStatus	1.3.6.1.4.1.2272.1.222.1.1.3.1.7	6.1
rcDigitalCertCaLastActionFailureReason	1.3.6.1.4.1.2272.1.222.1.1.3.1.8	6.1
rcDigitalCertCaInstallRootCaFileName	1.3.6.1.4.1.2272.1.222.1.1.3.1.9	6.1
rcDigitalCertCaSubjectCertificateValidityDays	1.3.6.1.4.1.2272.1.222.1.1.3.1.10	6.1
rcDigitalCertCaUsePost	1.3.6.1.4.1.2272.1.222.1.1.3.1.11	6.1
rcDigitalCertCaRowStatus	1.3.6.1.4.1.2272.1.222.1.1.3.1.12	6.1
rcDigitalCertTable	1.3.6.1.4.1.2272.1.222.1.1.4	6.1
rcDigitalCertEntry	1.3.6.1.4.1.2272.1.222.1.1.4.1	6.1
rcDigitalCertType	1.3.6.1.4.1.2272.1.222.1.1.4.1.1	6.1
rcDigitalCertVersionNumber	1.3.6.1.4.1.2272.1.222.1.1.4.1.2	6.1
rcDigitalCertSerialNumber	1.3.6.1.4.1.2272.1.222.1.1.4.1.3 1.3.6.1.4.1.2272.1.222.1.1.4.1.4	6.1
rcDigitalCertIssuerName rcDigitalCertValidStartPeriod	1.3.6.1.4.1.2272.1.222.1.1.4.1.4	6.1 6.1
rcDigitalCertValidEndPeriod	1.3.6.1.4.1.2272.1.222.1.1.4.1.5	
rcDigitalCertCertificateSignatureAlgorithm	1.3.6.1.4.1.2272.1.222.1.1.4.1.0	6.1 6.1
rcDigitalCertCertificateSignature	1.3.6.1.4.1.2272.1.222.1.1.4.1.8	6.1
rcDigitalCertSubject	1.3.6.1.4.1.2272.1.222.1.1.4.1.9	6.1
rcDigitalCertSubjectPublicKeyAlgorithm	1.3.6.1.4.1.2272.1.222.1.1.4.1.10	6.1
rcDigitalCertSubjectPublicKey	1.3.6.1.4.1.2272.1.222.1.1.4.1.11	6.1
rcDigitalCertHasBasicConstraint	1.3.6.1.4.1.2272.1.222.1.1.4.1.12	6.1
rcDigitalCertHasKeyUsage	1.3.6.1.4.1.2272.1.222.1.1.4.1.13	6.1
rcDigitalCertIsCa	1.3.6.1.4.1.2272.1.222.1.1.4.1.14	6.1
rcDigitalCertKeyUsage	1.3.6.1.4.1.2272.1.222.1.1.4.1.15	6.1
rcDigitalCertStatus	1.3.6.1.4.1.2272.1.222.1.1.4.1.16	6.1
rcDigitalCertInstalled	1.3.6.1.4.1.2272.1.222.1.1.4.1.17	6.1
rcDigitalCertCdpUrl	1.3.6.1.4.1.2272.1.222.1.1.4.1.18	6.1
rcDigitalCertOcspUrl	1.3.6.1.4.1.2272.1.222.1.1.4.1.19	6.1
rcDigitalCertExtendedKeyUsage	1.3.6.1.4.1.2272.1.222.1.1.4.1.20	6.1
rcDigitalCertStoreTable	1.3.6.1.4.1.2272.1.222.1.1.5	6.1
rcDigitalCertStoreEntry	1.3.6.1.4.1.2272.1.222.1.1.5.1	6.1
rcDigitalCertStoreType	1.3.6.1.4.1.2272.1.222.1.1.5.1.1	6.1
rcDigitalCertStoreCommonName	1.3.6.1.4.1.2272.1.222.1.1.5.1.2	6.1
rcDigitalCertStoreVersionNumber	1.3.6.1.4.1.2272.1.222.1.1.5.1.3	6.1
rcDigitalCertStoreSerialNumber	1.3.6.1.4.1.2272.1.222.1.1.5.1.4	6.1
rcDigitalCertStoreIssuerName	1.3.6.1.4.1.2272.1.222.1.1.5.1.5	6.1
rcDigitalCertStoreValidStartPeriod rcDigitalCertStoreValidEndPeriod	1.3.6.1.4.1.2272.1.222.1.1.5.1.6	6.1 6.1
rcDigitalCertStoreValidEndPeriod	1.3.6.1.4.1.2272.1.222.1.1.5.1.7	6.1
rcDigitalCertStoreCertificateSignatureAlgorithm	1.3.6.1.4.1.2272.1.222.1.1.5.1.8 1.3.6.1.4.1.2272.1.222.1.1.5.1.9	6.1
	11.0.0.1.4.1.2212.1.222.1.1.0.1.8	U. I

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1.3.6.1.4.1.2272.1.222.1.1.5.1.10	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.11	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.12	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.13	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.14	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.15	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.16	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.17	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.18	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.19	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.20	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.21	6.1
1.3.6.1.4.1.2272.1.222.1.1.5.1.22	6.1
1.3.6.1.4.1.2272.1.202.1.1.2.4.1.1.36	6.1
1.3.6.1.4.1.2272.1.29.1.25	6.1
1.3.6.1.4.1.2272.1.63.11.1.7	6.1
1.3.6.1.4.1.2272.1.21.0.336	6.1
1.3.6.1.4.1.2272.1.21.0.341	6.1
1.3.6.1.4.1.2272.1.21.0.342	6.1
-	6.1
-	6.1
-	6.1
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Obsolete MIBs

Object Name	Object OID	Obsolete in Release
rcPortBpduFilteringTimerCount	1.3.6.1.4.1.2272.1.4.10.1.1.69	6.0
rclgmpSenderTable	1.3.6.1.4.1.2272.1.30.28	6.0
rclgmpSenderEntry	1.3.6.1.4.1.2272.1.30.28.1	6.0
rclgmpSenderlfIndex	1.3.6.1.4.1.2272.1.30.28.1.1	6.0
rclgmpSenderGrpAddr	1.3.6.1.4.1.2272.1.30.28.1.2	6.0
rcIgmpSenderMemberAddr	1.3.6.1.4.1.2272.1.30.28.1.3	6.0
rclgmpSenderAction	1.3.6.1.4.1.2272.1.30.28.1.4	6.0
rclgmpSenderTPort	1.3.6.1.4.1.2272.1.30.28.1.5	6.0
rclgmpSenderState	1.3.6.1.4.1.2272.1.30.28.1.6	6.0
rcIgmpSenderL2Isid	1.3.6.1.4.1.2272.1.30.28.1.7	6.0
rcMsdpSACacheStatsClear	1.3.6.1.4.1.2272.1.80.1.1.1.5	6.0
rclsisPlsblpUnicastFibTable	1.3.6.1.4.1.2272.1.63.12	6.1
rcIsisPIsbIpUnicastFibEntry	1.3.6.1.4.1.2272.1.63.12.1	6.1
rcIsisPlsblpUnicastFibVrfld	1.3.6.1.4.1.2272.1.63.12.1.1	6.1
rclsisPlsblpUnicastFibDestinationIpAddrType	1.3.6.1.4.1.2272.1.63.12.1.2	6.1
rclsisPlsblpUnicastFibDestinationIpAddr	1.3.6.1.4.1.2272.1.63.12.1.3	6.1
rclsisPlsblpUnicastFibDestinationMask	1.3.6.1.4.1.2272.1.63.12.1.4	6.1
rclsisPlsblpUnicastFibNextHopBmac	1.3.6.1.4.1.2272.1.63.12.1.5	6.1
rcIsisPlsbIpUnicastFibVlan	1.3.6.1.4.1.2272.1.63.12.1.6	6.1
rclsisPlsblpUnicastFiblsid	1.3.6.1.4.1.2272.1.63.12.1.7	6.1
rclsisPlsblpUnicastFibNextHopName	1.3.6.1.4.1.2272.1.63.12.1.8	6.1
rclsisPlsblpUnicastFibOutgoingPort	1.3.6.1.4.1.2272.1.63.12.1.9	6.1
rclsisPlsblpUnicastFibPrefixCost	1.3.6.1.4.1.2272.1.63.12.1.10	6.1
rclsisPlsblpUnicastFibSpbmCost	1.3.6.1.4.1.2272.1.63.12.1.11	6.1