

Cisco Nexus 1000V Release Notes, Release 5.2(1)SV3(2.1)

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Cisco Nexus 1000V Release Notes

This document describes the features, limitations, and bugs for Cisco Nexus 1000V Release 5.2(1)SV3(2.1).

Cisco Nexus 1000V for VMware

The Cisco Nexus 1000V for VMware provides a distributed, Layer 2 virtual switch that extends across multiple virtualized hosts. The Cisco Nexus 1000V manages a data center defined by the vCenter Server. Each server in the data center is represented as a line card in the Cisco Nexus 1000V and can be managed as if it were a line card in a physical Cisco switch.

The Cisco Nexus 1000V consists of the following components:

- Virtual Supervisor Module (VSM), which contains the Cisco CLI, configuration, and high-level features.
- Virtual Ethernet Module (VEM), which acts as a line card and runs in each virtualized server to handle packet forwarding and other localized functions.

Software Compatibility with VMware

The servers that run the Cisco Nexus 1000V VSM and VEM must be in the [VMware Hardware Compatibility](#) list. This release of the Cisco Nexus 1000V supports vSphere 6.0, 5.5, 5.1, and 5.0 release trains. For additional compatibility information, see the *Cisco Nexus 1000V and VMware Compatibility Information*.



Note

- VSM hardware versions 7, 8, 9, and 10 are supported. VSM hardware version 11 is not supported.
- The Cisco Nexus 1000V supports all virtual machine network adapter types that VMware vSphere supports. Refer to the VMware documentation when choosing a network adapter. For more information, see the *VMware Knowledge Base article #1001805*.

Software Compatibility with Cisco Nexus 1000V

This release supports hitless upgrades from Release 4.2(1)SV2(1.1) and later. For more information, see the *Cisco Nexus 1000V Installation and Upgrade Guide*.

New Features and Enhancements

Cisco Nexus 1000V Release 5.2(1)SV3(2.1) includes the following features, enhancements, and support:

Feature	Description
Multi-IP per MAC support for IPSG	Cisco Nexus 1000V supports binding multiple IP addresses to a single MAC address for traffic filtering.
CTS SXPv3 protocol support	Cisco TrustSec supports SXP version 3 (SXPv3) to transport IPv4 subnets to the SGT bindings.
SGT tagging based on subnet IP addresses	Cisco Nexus 1000V supports the subnet-SGT mapping to bind an SGT to all host addresses of a specified subnet.
IPv6 support for communication between the VSM and the vCenter server	Cisco Nexus 1000V supports IPv6 transport mode for communication between the VSM and the vCenter server.
Fixes for various customer issues	See Resolved Bugs , on page 16.
Updated documentation	<p>The following documents have been updated for this release:</p> <ul style="list-style-type: none"> • Minimum and Recommended Releases for the Cisco Nexus 1000V for VMware Switch—Lists the minimum and recommended Cisco Nexus 1000V for VMware releases for new and existing deployments. • Cisco Nexus 1000V Installation and Upgrade Guide—Describes how to install and upgrade to Cisco Nexus 1000V Release 5.2(1)SV3(2.1). • Cisco Nexus 1000V and VMware Compatibility Information—Lists compatibility information for Cisco Nexus 1000V Release 5.2(1)SV3(2.1). • Cisco Nexus 1000V for VMware vSphere Security Configuration Guide, Release 5.x—Describes how to configure multi-IP per MAC support for IPSG, CTS SXPv3 protocol support, and SGT tagging based on subnet IP addresses. • Cisco Nexus 1000V for VMware vSphere System Management Configuration Guide, Release 5.x—Describes how to configure IPv6 support for communication between the VSM and the vCenter server.

Configuration Scale Limits

The following topics provide configuration scale limit information:

- [Cisco Nexus 1000V Configuration Scale Limits, on page 3](#)
- [Cisco VSG Configuration Scale Limits, on page 5](#)
- [Cisco AVS Configuration Scale Limits, on page 5](#)
- [VDP Configuration Scale Limits, on page 6](#)

Cisco Nexus 1000V Configuration Scale Limits

The following table lists the configuration scale limit information for the Cisco Nexus 1000V Advanced edition.


Note

The scale limits for the Cisco Nexus 1000V Essential edition are half of what is stated in the following table.

Feature	VEM	DVS	Other
Hosts/DVS	—	250 (includes gateways)	—
Total vEth ports	1000	10,240	—
Ports per port profile	1024	2048	—
Port profiles	6144	6144	—
Physical NICs	32	2000	—
Physical trunks	32	2000	—
vEthernet trunks	32	1024	—
Port channels	8	1024	—
Active VLANs	4094	4094	—
VXLANs (bridge domains)	6144	6144	—
VXLAN trunks	32	1024	—
VXLAN mappings per trunk	512	—	—
VXLAN VNI	1044	6144	—

Feature	VEM	DVS	Other
VTEPs	4	1024	512 per bridge domain
BGP peers	8 VSM	—	—
Route reflectors	—	—	2 per VXLAN control plane
MAC addresses	32,000	—	—
MAC address per VLAN	4094	4094	—
DHCP IP bindings	1024	10,240	—
ACLs	128	128	—
ACEs per ACL	—	128	—
ACL instances	6000	42,000	6 instances per port
NetFlow policies	32,000 flows	<ul style="list-style-type: none"> • 64 monitor sessions • 64 records • 64 exporters 	—
QoS policy maps	—	128	—
QoS class	—	1024	—
QoS class maps/policy maps	—	—	64
QoS instances (ingress and egress)	—	9000	—
Multicast groups	1024	1024	—
PVLANS	512	512	—
Port security MACs	2048	24,000	5 MACs per port
SPAN/ERSPAN sessions	64	64	—
Source interfaces per session	—	128 vEths or 32 physical Eths or port channels	—

Feature	VEM	DVS	Other
Source VLANs per session	—	32	—
Destination interfaces per session	—	32	—
SPAN sessions per source interface	—	4	—
Source profiles per session	—	16	—
Destination profiles per session	—	8	—
Cisco TrustSec	—	<ul style="list-style-type: none"> • 6000 IP-SGT mappings • 4000 IP-Subnet-SGT mappings • 128 SGACLs • 128 ACEs per SGACL • 8 SXP peers 	—
Number of VSMs per VC	—	—	64
Domain ID range	—	—	1-1023

Cisco VSG Configuration Scale Limits

In this release, when Cisco Virtual Security Gateway (VSG) solutions using version 5.2(1)VSG2(1.4) are deployed, the following scale limitations apply and supersede the scale numbers shown in [Cisco Nexus 1000V Configuration Scale Limits](#), on page 3.

Feature	VEM	DVS	Number of VEM Modules
VSG	512 vEth ports per VEM	10,000 vEth ports with up to 6000 vEth ports protected by VSG	250 per DVS

Cisco AVS Configuration Scale Limits

In this release, when Cisco Application Virtual Switch (AVS) solutions are deployed, the following scale limitations apply and supersede the scale numbers shown in [Cisco Nexus 1000V Configuration Scale Limits](#), on page 3.

Feature	VEM	Top of Rack
AVS	300 vEth ports per VEM	40 VEM modules

VDP Configuration Scale Limits

In this release, when VSI Discovery Protocol (VDP) solutions are deployed, the following scale limitations apply and supersede the scale numbers shown in [Cisco Nexus 1000V Configuration Scale Limits](#), on page 3.

Feature	VEM	DVS	Number of VEM Modules
VDP	300 vEth ports per VEM	4000 vEth ports	128 per DVS

Important Notes and Limitations

The following topics provide important notes and limitations.

Configuration Container Names Must Be Unique

All Cisco Nexus 1000V VSM configuration containers—port profiles, bridge domains, ACLs, class maps, policy maps, and so on—must have unique names.

In releases earlier than 5.2(1)SV3(1.1), you could create two configuration containers (for example, two port profiles) with the same name but different case sensitivity; for example, vmotion and VMOTION.

In later releases, you cannot create two configuration containers (for example, two port profiles) with the same name but different case sensitivity. During an upgrade, one of the port profiles with a duplicate name is deleted, which moves the corresponding ports in vCenter into quarantined state.

For example, do not create bridge domains with the same name (one uppercase, one lowercase) that point to different segments. See the following examples:

This is an example of an uppercase name:

```
switch# show bridge-domain VXLAN14095
Bridge-domain VXLAN14095 (0 ports in all)
Segment ID: 12333 (Manual/Active)
Mode: Unicast-only
MAC Distribution: Disable
BGP control mode: Enable
Group IP: NULL
Encap Mode: VXLAN*
State: UP Mac learning: Enabled
```

This is an example of a lowercase name:

```
switch# show bridge-domain vxlan14095
Bridge-domain vxlan14095 (0 ports in all)
Segment ID: 14095 (Manual/Active)
Mode: Unicast-only
MAC Distribution: Disable
BGP control mode: Enable
Group IP: 237.1.1.196
```

```
Encap Mode: VXLAN*  
State: UP Mac learning: Enabled
```

Single VMware Data Center Support

The Cisco Nexus 1000V for VMware can be connected to a single VMware vCenter Server data center object. Note that this virtual data center can span multiple physical data centers.

Each VMware vCenter can support multiple Cisco Nexus 1000V VSMs per vCenter data center.

VDP

Implementing VDP on the Cisco Nexus 1000V has the following limitations and restrictions:

- The Cisco Nexus 1000V supports the Cisco DFA-capable VDP based on the IEEE Standard 802.1 Qbg, Draft 2.2, and does not support the Link Layer Discovery Protocol (LLDP). Therefore, the EVB type, length, and value are not originated or processed by the Cisco Nexus 1000V.
- The VDP implementation in the current release supports a matching LLDP-less implementation on the bridge side, which is delivered as part of the Cisco DFA solution. For more information on the Cisco DFA, see the *Cisco DFA Solutions Guide*.
- Timer-related parameters are individually configurable in the station and in the leaf.
- Connectivity to multiple unclustered bridges is not supported in this release.
- IPv6 addresses in filter format are not supported in this release.
- VDP is supported for only segmentation-based port profiles. VDP for VLAN-based port profiles is not supported in this release.
- The dynamic VLANs allocated by VDP are local to the VEM; they should not be configured on the Cisco Nexus 1000V VSM.
- VDP is supported on VMware ESX releases 5.0, 5.1, 5.5, and 6.0 in this release.

Custom TCP/IP Stack

Cisco Nexus 1000V VEM does not support ESXi custom TCP/IP stack and control traffic through the custom TCP/IP stack.

DFA

Fabric forwarding mode is not supported under the VLAN configuration.

ERSPAN

If the ERSPAN source and destination are in different subnets, and if the ERSPAN source is an L3 control VM kernel NIC attached to a Cisco Nexus 1000V VEM, you must enable proxy-ARP on the upstream switch.

If you do not enable proxy-ARP on the upstream switch (or router, if there is no default gateway), ERSPAN packets are not sent to the destination.

VMotion of VSM

VMotion of VSM has the following limitations and restrictions:

- VMotion of VSM is supported for both the active and standby VSM VMs. For high availability, we recommend that the active VSM and standby VSM reside on separate hosts.
- If you enable Distributed Resource Scheduler (DRS), you must use the VMware anti-affinity rules to ensure that the two VMs are never on the same host, and that a host failure cannot result in the loss of both the active and standby VSM.
- VMware VMotion does not complete when using an open virtual appliance (OVA) VSM deployment if the CD image is still mounted. To complete the VMotion, either click **Edit Settings** on the VM to disconnect the mounted CD image, or power off the VM. No functional impact results from this limitation.
- If you are adding one host in a DRS cluster that is using a vSwitch to a VSM, you must move the remaining hosts in the DRS cluster to the VSM. Otherwise, the DRS logic does not work, the VMs that are deployed on the VEM could be moved to a host in the cluster that does not have a VEM, and the VMs lose network connectivity.

**Note**

For more information about VMotion of VSM, see the *Cisco Nexus 1000V Installation and Upgrade Guide*.

Access Lists

ACLs have the following limitations and restrictions:

- VLAN-based ACLs (VACLs) are not supported.
- ACLs are not supported on port channels.
- The **access-class** command is not supported on the vty interface. Use management interface ACL for any access-list requirements.

NetFlow

The NetFlow configuration has the following limitations and restrictions:

- NetFlow Sampler is not supported.
- NetFlow Exporter format V9 is supported.
- NetFlow Exporter format V5 is not supported.
- NetFlow is not supported on port channels.
- The NetFlow cache table does not support immediate or permanent cache types.

Port Security

Port security has the following limitations and restrictions:

- Port security is enabled globally by default.
- The **feature/no feature port-security** command is not supported.
- In response to a security violation, you can shut down the port.

Port Profiles

Port profiles have the following limitations and restrictions:

- There is a limit of 255 characters in a **port-profile** command attribute.
- We recommend that if you are altering or removing a port channel, you should migrate the interfaces that inherit the port channel port profile to a port profile with the desired configuration, rather than editing the original port channel port profile directly.
- When you remove a port profile that is mapped to a VMware port group, the associated port group and settings within the vCenter Server are also removed.
- Policy names are not checked against the policy database when ACL/NetFlow policies are applied through the port profile. It is possible to apply a nonexistent policy.
- The port profile name can be up to 80 alphanumeric characters, is not case-sensitive, and must be unique for each port profile on the Cisco Nexus 1000V. The port profile name cannot contain any spaces. The port profile name can include all the ASCII special characters except the forward slash (/), backslash (\), percent (%), and question mark (?).

**Note**

If there are any existing port profiles (created in earlier Cisco Nexus 1000V releases) with names that contain a forward slash (/), backslash (\), percent (%), or question mark (?), you can continue to use them in this release.

SSH Support

Only SSH version 2(SSHv2) is supported.

Mixed-Mode Upgrade Support

Starting with Release 5.2(1)SV3(1.15), Cisco Nexus 1000V deployment supports a configuration where the VSM version can be the same or later than the VEM version. With the mixed-mode upgrade functionality, you can upgrade the VSM without upgrading the VEM and reduce the overhead involved in the Cisco Nexus 1000V upgrade. For more information on mixed-mode upgrade support, see the *Cisco Nexus 1000V Installation and Upgrade Guide*.

LACP

Only LACP offload to VEM is supported. Upgrades from earlier releases to this release change LACP to offload mode by default.

Cisco NX-OS Commands Might Differ from Cisco IOS

Be aware that the Cisco NX-OS CLI commands and modes might differ from those commands and modes used in the Cisco IOS software.

No Spanning Tree Protocol

The Cisco Nexus 1000V for VMware forwarding logic is designed to prevent network loops; therefore, it does not use the Spanning Tree Protocol. Packets that are received from the network on any link connecting the host to the network are not forwarded back to the network by the Cisco Nexus 1000V.

No Support for VXLAN Gateway

Starting with Cisco Nexus 1000V Release 5.2(1)SV3(1.15), the VXLAN Gateway feature is not supported.

Cisco Discovery Protocol

The Cisco Discovery Protocol (CDP) is enabled globally by default.

CDP runs on all Cisco-manufactured equipment over the data link layer and does the following:

- Advertises information to all attached Cisco devices.
- Discovers and views information about those Cisco devices.
 - CDP can discover up to 256 neighbors per port if the port is connected to a hub with 256 connections.

**Note**

If you disable CDP globally, CDP is also disabled for all interfaces.

For more information about CDP, see the *Cisco Nexus 1000V System Management Configuration Guide*.

DHCP Not Supported for the Management IP

DHCP is not supported for the management IP. The management IP must be configured statically.

Upstream Switch Ports

We recommend that you configure spanning-tree port type edge on upstream switches for faster convergence.

The following commands are available to use on Cisco upstream switch ports in interface configuration mode:

- spanning-tree portfast
- spanning-tree portfast trunk
- spanning-tree portfast edge trunk

Interfaces

When the maximum transmission unit (MTU) is configured on an operationally up interface, the interface goes down and comes back up.

Supported MTU values vary according to underlying physical NIC capability.

Layer 3 VSG

When a VEM communicates with the Cisco VSG in Layer 3 mode, an additional header with 94 bytes is added to the original packet. You must set the MTU to a minimum of 1594 bytes to accommodate this extra header for any network interface through which the traffic passes between the Cisco Nexus 1000V and the Cisco VSG. These interfaces can include the uplink port profile, the proxy ARP router, or a virtual switch.

Copy Running-Config Startup-Config Command

When you are using the **copy running-config startup-config** command, do not press the PrtScn key. If you do, the command aborts.

SNMP User Accounts Must Be Reconfigured After an Upgrade

If you are upgrading from a release earlier than 5.2(1)SV3(1.1), the SNMP engine ID changes internally to a unique engine ID. You must reconfigure all the SNMP user accounts to work with the new engine ID. Until the SNMP user accounts are reconfigured, all SNMPv3 queries fail. This restriction is associated with the defect CSCuo12696.

After an upgrade, use the **show snmp user** command to view the engine ID:

```
switch# show snmp user
```

```
SNMP USERS
```

```
User Auth Priv(enforce) Groups
```

```
NOTIFICATION TARGET USERS (configured for sending V3 Inform)
```

```
User Auth Priv
```

```
admin md5 des
```

```
(EngineID 128:0:0:9:3:2:0:12:0:0:0)
```

Complete the following steps to reconfigure SNMP user accounts. Reconfiguring an SNMP user account involves deleting and recreating a new SNMP username and password. Note that *paswd123* is an example that represents the SNMP user password.

Step 1 Delete the username. For example:

```
switch(config)#no snmp user admin auth md5 paswd123 engineID 128:0:0:9:3:2:0:12:0:0:0
```

Step 2 Use one of the following options to recreate the SNMP username and password. For example:

- Option 1

```
switch(config)# snmp user admin auth md5 paswd123
```

- Option 2

```
switch(config)# snmp-server user admin auth md5 paswd123 priv aes-128 paswd123
```

Step 3 Confirm that the engine ID has been updated. For example:

- Option 1

```
switch# show snmp user
```

```
SNMP USERS
```

```
User Auth Priv(enforce) Groups
```

```
admin md5 no network-operator
```

```
NOTIFICATION TARGET USERS (configured for sending V3 Inform)
```

```
User Auth Priv
```

- Option 2

```
switch(config)# show snmp user
```

```
SNMP USERS
```

```
User Auth Priv(enforce) Groups
```

```
admin md5 aes-128(no) network-operator
```

```
NOTIFICATION TARGET USERS (configured for sending V3 Inform)
```

```
User Auth Priv
```

Step 4 Verify that the engine ID is unique. For example:

```
switch# show snmp engineID
```

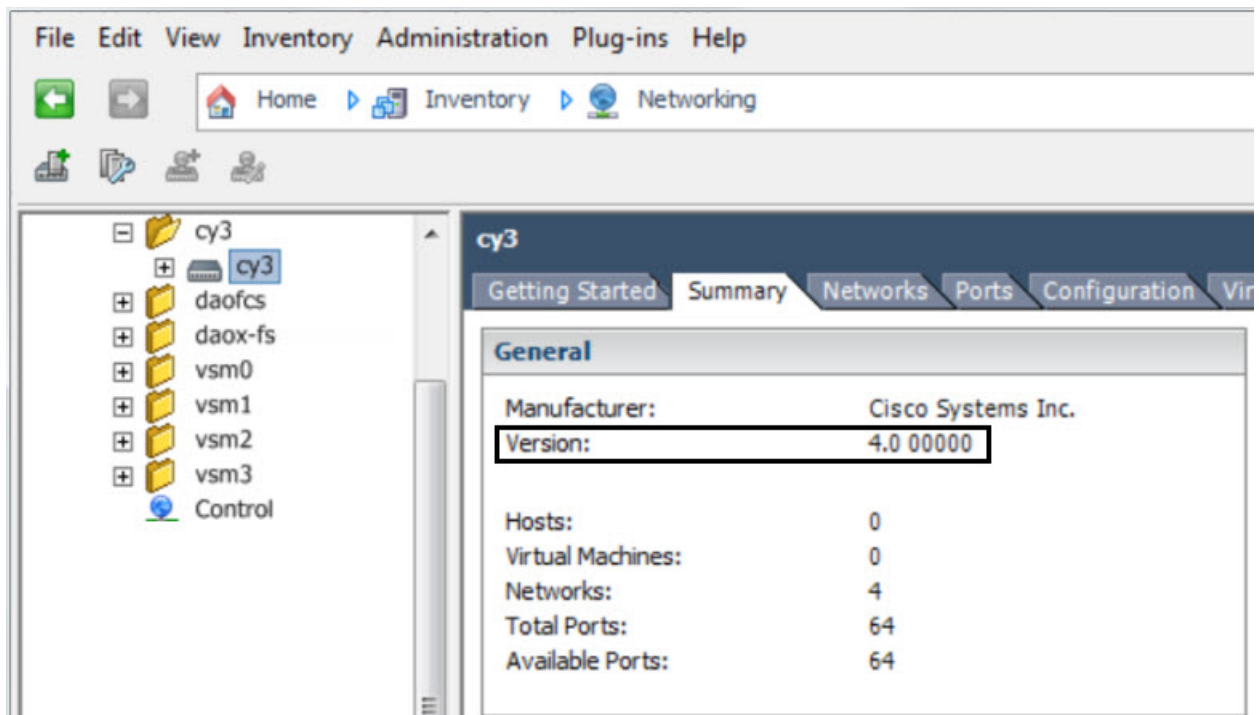
```
Local SNMP engineID: [Hex] 8000000903005056A0544E
```

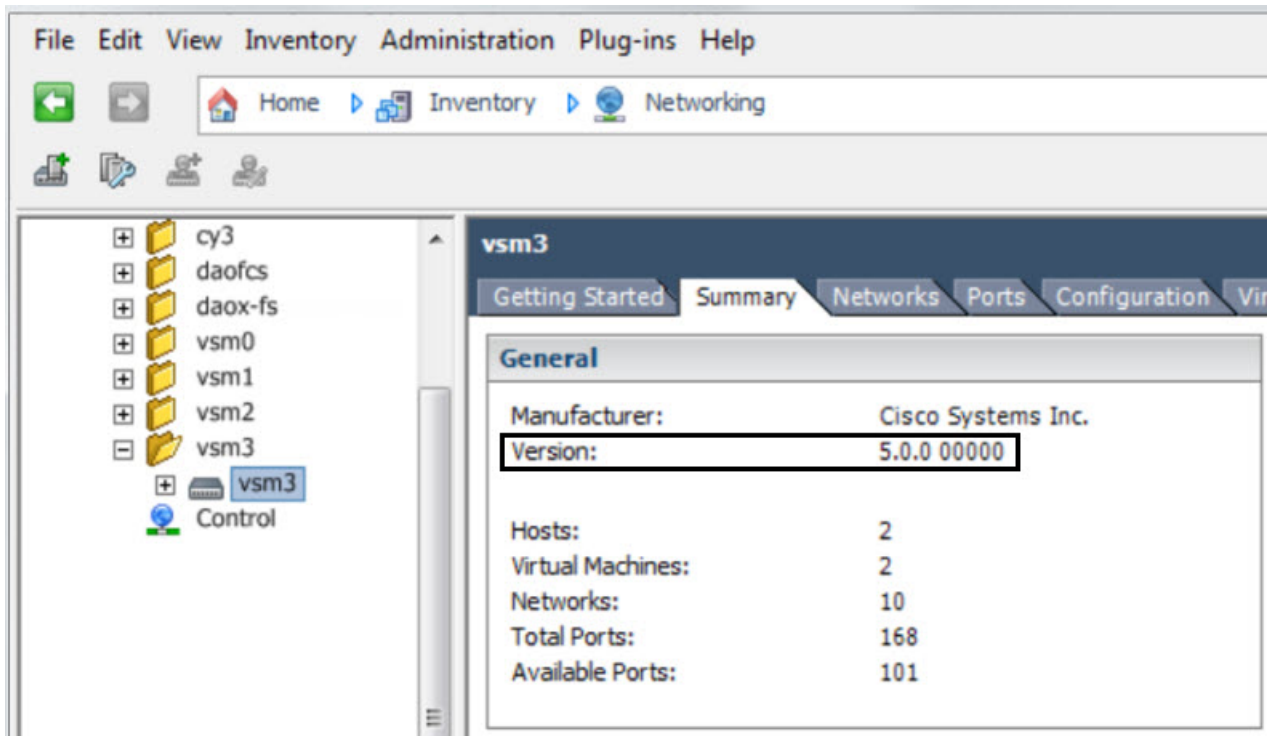
```
[Dec] 128:000:000:009:003:000:080:086:160:084:078
```

Viewing the Distributed Virtual Switch Version in the VMware vSphere Web Client GUI

You can use the VMware vSphere Web Client GUI to view which distributed virtual switch (DVS) version you are using.

- Step 1** Log in to the VMware vSphere Web Client.
- Step 2** Under **Home > Inventory > Networking**, expand the data center folder and select the DVS.
- Step 3** Click the **Summary** tab; the DVS version is displayed in the **General** area. For example:





Viewing the Distributed Virtual Switch Version in the Virtual Supervisor Module CLI

You can use the Virtual Supervisor Module (VSM) CLI to view which DVS version you are using.

- Step 1** Log in to the VSM CLI in EXEC mode.
- Step 2** Enter the **show svcs connections** command.
- Step 3** The command output shows the DVS version; for example:

```
switch# show svcs connections

connection vc:
  hostname: -
  ip address: <IP-address>
  ipv6 address: -
  remote port: 80
  transport type: ipv4
  protocol: vmware-vim https
  certificate: default
  datacenter name: <name>
  admin:
  max-ports: 12000
  DVS uuid: <ID>
```

```

dvs version: 4.0
config status: Enabled
operational status: Connected
sync status: Complete
version: VMware vCenter Server 5.1.0 build-1123961
vc-uuid: <ID>
ssl-cert: self-signed or not authenticated
switch#

```

Using the Bug Search Tool

Use the Bug Search Tool to search for a specific bug or to search for all bugs in a release.

-
- Step 1** Go to <http://tools.cisco.com/bugsearch>.
- Step 2** In the Log In screen, enter your registered Cisco.com username and password, and then click **Log In**. The Bug Search page opens.
- Note** If you do not have a Cisco.com username and password, you can register for them at <http://tools.cisco.com/RPF/register/register.do>.
- Step 3** To search for a specific bug, enter the bug ID in the Search For field and press **Enter**.
- Step 4** To search for bugs in the current release:
- In the Search For field, enter **Cisco Nexus 1000V for VMware** and press **Enter**. (Leave the other fields empty.)
 - When the search results are displayed, use the filter tools to find the types of bugs you are looking for. You can search for bugs by status, severity, modified date, and so forth.
- Tip** To export the results to a spreadsheet, click the **Export Results to Excel** link.
-

Open Bugs

The following table lists the bug ID and description of open bugs that apply to the Cisco Nexus 1000V for VMware Release 5.2(1)SV3(2.1).

Bug ID	Description
CSCuy94428	Communication breaks between the VSM and PNSC when both the mgmt0 and control0 interfaces are configured with PNSC on the same subnet as that of control0.
CSCuz52328	In an IPv6 setup, VEMs go into flapping state after two switchovers. The error message "unexpected node id request" is generated.
CSCuz53265	In an SXPv1 and SXPv3 setup, the CTS process on SXPv1 goes into a loop.

Bug ID	Description
CSCuz72714	Cisco Nexus 1000V SXP peer-learned subnet segment mapping can be removed via the CLI.
CSCuz80451	VEM module goes offline after changing the management IP of the VSM.
CSCux91056	SVS synchronization fails after a system switchover.
CSCva10179	Intermittent module flaps with scale CTS configurations and different version SXP peers.
CSCva11801	<p>With static port binding on the vEth port profile, if VMs are created or deleted frequently, the deleted VM's dvportid might be reused for the newly created VM. As a result, the new VM port reuses the deleted VM's port configuration, and the new VM port might therefore be considered as the SPAN/ERSPAN source or destination.</p> <p>A similar condition can create a stale IP binding for a protected VSG port, and a stale MAC entry for a PVLAN port.</p> <p>This problem occurs only on VMware vSphere Distributed Switch version 5.0 with the Cisco Nexus 1000V Release 5.2(1)SV3(1.4) and later. To view which distributed virtual switch (DVS) version you are using, see:</p> <ul style="list-style-type: none"> • Viewing the Distributed Virtual Switch Version in the VMware vSphere Web Client GUI, on page 13 • Viewing the Distributed Virtual Switch Version in the Virtual Supervisor Module CLI, on page 14
CSCva11835	show vservice brief command output breaks in mixed mode.
CSCva19589	VSG syslog generated on removal or addition of the last or first vEth on VEM.
CSCuw55307	Cannot add host to N1KV DVS via the vSphere 6.0 Web Client.

Resolved Bugs

The following table lists the bug ID and description of a select number of resolved high-priority bugs in the Cisco Nexus 1000V for VMware Release 5.2(1)SV3(2.1).

Bug ID	Description
CSCur64452	MD5-based signature in TLS/SSL server X.509 certificate (CVE-2004-2761).
CSCut38570	PSOD occurs during hot swap.
CSCuu82360	Evaluation of Cisco Nexus 1000V for OpenSSL June 2015.

Bug ID	Description
CSCuv97166	Cisco Nexus 1000V does not push port profiles to vCenter.
CSCuw16428	The sh process cpu command displays a large number of sh processes in defunct state.
CSCuw56693	RC4 configuration through openssl s_client -connect host:443 -cipher RC4 command.
CSCuw84710	Evaluation of Cisco Nexus 1000V for NTP October 2015.
CSCuy54492	Evaluation of Cisco Nexus 1000V for OpenSSL March 2016.
CSCuy82654	PPM crash on Cisco Nexus 1000V Release 5.2(1)SV3(1.10) VSM.
CSCuz04630	Incorrect value shown for maximum number of vEth ports per module.
CSCuz04977	Private VLAN process crashes in Cisco Nexus 1000V Release 5.2(1)SV3(1.2).
CSCuz14790	PSOD occurs in sf_qos_list_set during ESXi host upgrade.
CSCuz68866	Upgrading from Release 4.2(1)SV2(2.2) to Release 5.2(1)SV3(1.10) causes a vns_agent crash (core signal 6).
CSCuz72833	VEM module goes into other state.
CSCuz93158	Cisco PNSC and Cisco VSG information is not available when the PA agent is configured on Cisco Nexus 1000V.

Accessibility Features in Cisco Nexus 1000V

All product documents are accessible except for images, graphics, and some charts. If you would like to receive the product documentation in audio format, braille, or large print, contact accessibility@cisco.com.

MIB Support

The Cisco Management Information Base (MIB) list includes Cisco proprietary MIBs and many other Internet Engineering Task Force (IETF)-standard MIBs. These standard MIBs are defined in Requests for Comments (RFCs). To find specific MIB information, you must examine the Cisco proprietary MIB structure and related IETF-standard MIBs supported by the Cisco Nexus 1000V Series switch.

The MIB Support List is available at the following FTP site: <ftp://ftp.cisco.com/pub/mibs/supportlists/nexus1000v/Nexus1000VMIBSupportList.html>

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). RSS feeds are a free service.

