



Cisco Application Virtual Switch Release Notes, Release 5.2(1)SV3(1.16a)

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This document describes the features, bugs, and limitations for the Cisco Application Virtual Switch (AVS) software.

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Cisco AVS

Cisco AVS is a hypervisor-resident distributed virtual switch that is specifically designed for Cisco Application Centric Infrastructure (ACI) and managed by the Application Policy Infrastructure Controller (APIC). Cisco AVS implements the OpFlex protocol for control plane communication.



Cisco AVS supports two modes of traffic forwarding: local switching and no local switching. The forwarding mode is selected during Cisco AVS installation.

Cisco AVS is supported as a vLeaf for Cisco APIC with the VMware ESXi hypervisor. It manages a data center defined by the vCenter Server.

Cisco AVS is compatible with any upstream physical access layer switch that complies with the Ethernet standard, including Cisco Nexus switches. Cisco AVS is compatible with any server hardware listed in the [VMware Hardware Compatibility List](#).

Cisco AVS Software Compatibility

Cisco AVS Release 5.2(1)SV3(1.16a) is supported as a vLeaf for Cisco APIC with releases 5.1, 5.5, and 6.0 of the VMware ESXi hypervisor.



Note When you choose a Cisco AVS VIB, you must choose the one compatible with the version of VMware ESXi hypervisor that you use. ESXi 5.1 uses xxx.3.1.1.vib, ESXi 5.5 uses xxx.3.2.1.vib, and ESXi 6.0 uses xxx.6.0.1.vib.

The following table lists the compatibility of Cisco AVS with Cisco APIC.

Table 1 Cisco AVS and Cisco APIC Compatibility

Cisco AVS Version	Recommended Compatible Cisco APIC Version	Upgrade/Downgrade Compatible Cisco APIC Version
5.2(1)SV3(1.16a)	1.2(3e)	1.2(2h), 1.2(2g), 1.2(1m), 1.1(4i), 1.1(3f), 1.1(2h), 1.1(1s), 1.0(4q)
5.2(1)SV3(1.16)	1.2(3c)	1.2(2g), 1.2(1m), 1.1(4i), 1.1(3f), 1.1(2h), 1.1(1s), 1.0(4q)
5.2(1)SV3(1.15)	1.2(2g), 1.2(2h)	1.2(1m), 1.1(4g), 1.1(4i), 1.1(4e), 1.1(3f), 1.1(2i), 1.1(1s), 1.0(4q)
5.2(1)SV3(1.10a)	1.2(1m)	1.1(4i), 1.1(4e), 1.1(3f), 1.1(2h), 1.1(1s), 1.0(4q)
5.2(1)SV3(1.10)	1.2(1i) ¹	1.1(4i), 1.1(4e), 1.1(3f), 1.1(2h), 1.1(1s), 1.0(4q)
5.2(1)SV3(1.7)	1.1(4i), 1.1(4g), 1.1(4f), 1.1(4e)	1.1(3f), 1.1(2h), 1.1(1s)
5.2(1)SV3(1.6)	1.1(3f)	1.1(2h), 1.1(1s), 1.1(1r), 1.0(4q)
5.2(1)SV3(1.5i)	1.1(2h)	1.1(1s), 1.1(1o), 1.0(4q)
5.2(1)SV3(1.5c)	1.1(1s)	1.1(1o), 1.1(1j), 1.0(4q)
5.2(1)SV3(1.5b)	1.1(3f)	1.1(2h), 1.1(1r), 1.0(4q)
5.2(1)SV3(1.5a)	1.1(2h)	1.1(1o), 1.0(4q)
5.2(1)SV3(1.5)	1.1(1o)	1.1(1j), 1.0(4q), 1.0(4o), 1.0(4h)
5.2(1)SV3(1.3c)	1.0(4q)	1.0(4o), 1.0(4h), 1.0(3f), 1.0(2m), 1.0(2j), 1.0(1n), 1.0(1k), 1.0(1h), 1.0(1e)
5.2(1)SV3(1.3b)	1.0(4h)	1.0(3f), 1.0(2m), 1.0(2j), 1.0(1n), 1.0(1k), 1.0(1h), 1.0(1e)
5.2(1)SV3(1.3)	1.0(3o)	1.0(3f), 1.0(2m), 1.0(2j), 1.0(1n), 1.0(1k), 1.0(1h), 1.0(1e)
5.2(1)SV3(1.2)	1.0(2m)	1.0(2j), 1.0(1n), 1.0(1k), 1.0(1h), 1.0(1e)

Table 1 Cisco AVS and Cisco APIC Compatibility (continued)

Cisco AVS Version	Recommended Compatible Cisco APIC Version	Upgrade/Downgrade Compatible Cisco APIC Version
5.2(1)SV3(1.1)	1.0(1n)	1.0(1k), 1.0(1h), 1.0(1e)
4.2(1)SV2(2.3)	1.0(1n)	1.0(1k), 1.0(1h), 1.0(1e)

1. Cisco APIC Release 1.2(1i) is deferred. See the [Cisco APIC Release Notes for Release 1.2\(1i\)](#) for more information.

New and Changed Information

Cisco AVS Release 5.2(1)SV3(1.16a) supports all of the features that were supported in 5.2(1)SV3(1.16) along with additional bug fixes. For details, see the [Cisco Application Virtual Switch Release Notes 5.2\(1\)SV3\(1.16\)](#).

Limitations and Restrictions

The same limitations and restrictions for Cisco AVS Release 5.2(1)SV3(1.16) apply to 5.2(1)SV3(1.16a) as well. For details, see the [Cisco Application Virtual Switch Release Notes, Release 5.2\(1\)SV3\(1.16\)](#).

Incompatibility of Cisco AVS Releases 5.2(1)SV3(1.16) and 5.2(1)SV3(1.20)

If either Release 5.2(1)SV3(1.16) or Release 5.2(1)SV3(1.20) is imported into the VMware Virtual Update Manager (VUM), the other cannot be imported. The releases are mutually exclusive.

If you use VMware VUM, an upgrade from Release 5.2(1)SV3(1.16a) to Release 5.2(1)SV3(1.20) will fail. The alternative is to use Cisco Virtual Switch Update Manager (VSUM) or through the ESXi CLI. See the [Cisco AVS Installation and Upgrade Guide](#) for details.

Upgrades of Cisco APIC, Leaf Switches, and the Cisco AVS to Cisco APIC 1.2(2g) or Later

Starting with the Cisco APIC 1.2(2g) release, the Cisco AVS uses site-specific certifications; previously, the Cisco AVS used image-based certifications. So when you upgrade from an earlier release to Cisco APIC 1.2(2g) or later, you need to follow a particular sequence when upgrading Cisco APIC, leaf switches, and the Cisco AVS. See the section “Upgrading from a Previous Release to Cisco APIC Release 1.2(2g) or Later” in the [Cisco AVS Installation Guide](#).

Pre-provisioning not Supported for EPG Resolution Immediacy

When you set EPG resolution immediacy, Cisco AVS does not support pre-provisioning, which downloads a policy to a switch before the switch is installed.

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.

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- Step 1** Go to <http://tools.cisco.com/bugsearch>.
- Step 2** At the Log In screen, enter your registered Cisco.com username and password; 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 **Return**.
- Step 4** To search for bugs in the current release:
- In the Search For field, enter a problem, feature, or a product name and press **Return**. (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 modified date, status, severity, and so forth.

To export the results to a spreadsheet, click the **Export Results to Excel** link.

Open Bugs

The following table lists the open bugs in Cisco AVS Release 5.2(1)SV3(1.16a).

Table 2 Open Bugs

Bug ID	Headline
CSCut61064	An IP-based microsegment breaks for a quiet VM moved to a guest OS-based microsegment in another bridge domain.
CSCuv90651	With ASAv deployed, EP loops are detected when TOR reloads.
CSCux27711	ASAv ping stops at protected VMs after vem restarts.
CSCux75383	With VXLAN offload enabled on UCSM, vMotion fails and NFS mounts are inaccessible.
CSCuy35588	Improper output seen for LLDP with Cisco Nexus 5000 with version 7.1(0)N1(1a) as its neighbor.
CSCuy55009	A new mode, Mac-Pinning-Physical-NIC-Load, causes all ports to go into BLK state.
CSCuz08109	AVS sometimes misses EPP IGMP group report.
CSCuz63284	Uploading Release 5.2(1)SV3(1.20) VIB to VUM fails if Release 5.2(1)SV3(1.16) VIBs are present.
CSCuz79293	OpFlex SDK timer doesn't start or starts multiple times after timing out.

Resolved Bugs

The following table lists the resolved bugs in Cisco AVS Release 5.2(1)SV3(1.16a).

Table 3 **Resolved Bugs**

Bug ID	Headline
CSCuy08607	Pervasive subnet missing in epmc.
CSCuz35582	Log rotate not working for <code>svc .stderr</code> .
CSCva94195	VSwitch policy configuration moved to VMM domain since Cisco APIC version 1.2x.
CSCvb04299	Error when adding host to AVS through vCenter Web Client.

The compatible Cisco APIC version contains bug fixes; see the [Cisco APIC release notes](#).

Related Documentation for Cisco AVS

The Cisco AVS documentation is available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/application-virtual-switch/tsd-products-support-series-home.html>

Related Documentation for Cisco APIC

The Cisco APIC documentation is available at the following URL:

<http://www.cisco.com/c/en/us/support/cloud-systems-management/application-policy-infrastructure-controller-apic/tsd-products-support-series-home.html>

Cisco APIC documentation includes the *Cisco ACI Virtualization Guide*, which provides detailed information about Distributed Firewall and Microsegmentation with Cisco AVS.

Documentation Feedback

To provide technical feedback on this document or report an error or omission, please send your comments to avs-docfeedback@cisco.com. We appreciate your feedback.

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* at: <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

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