



Cisco Application Virtual Switch Release Notes, Release 5.2(1)SV3(1.3b)

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

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Cisco AVS

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



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

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

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

Cisco AVS Software Compatibility

The Cisco AVS is supported in Release 4.2(1)SV2(2.3) and later releases.

The Cisco AVS Release 5.2(1)SV3(1.3b) is supported as a vLeaf for the Cisco APIC with releases 5.1 and 5.5 of the VMware ESXi hypervisor.



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

The following table lists the compatibility of the Cisco AVS with the Cisco Application Policy Infrastructure Controller (APIC).

Table 1 Cisco AVS and Cisco APIC Compatibility

Cisco AVS Version	Recommended Compatible Cisco APIC Versions
5.2(1)SV3(1.3b)	1.0(4h)
5.2(1)SV3(1.3)	1.0(3o)
5.2(1)SV3(1.2)	1.0(2j), 1.0(2m)
5.2(1)SV3(1.1)	1.0(1e), 1.0(1h), 1.0(1k), 1.0(1n)
4.2(1)SV2(2.3)	1.0(1e), 1.0(1h), 1.0(1k), 1.0(1n)

New and Changed Information

Starting with this release, you can use the Cisco AVS with the ACI Simulator. The ACI Simulator consists of APIC software running on a UCS C-series server, controlling a set of five software-simulated ACI switches connected in a simulated fabric topology. You can add the Cisco AVS to the ACI Simulator.

For information about using the Cisco AVS with the ACI Simulator, see the [Cisco Application Virtual Switch Configuration Guide, Release 5.2\(1\)SV3\(1.3\)](#) and the [Cisco ACI Simulator Getting Started Guide](#).

Limitations and Restrictions

Creating a vSwitch override policy for bridge protocol data unit (BPDU) guard and BPDU filtering is not supported in Release 5.2(1)SV3(1.3b). Therefore, BPDU guard and BPDU filtering cannot be applied to Cisco AVS hosts when blade switches are deployed between TOR (leaf) and Cisco AVS (vLeaf).

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** At the Log In screen, enter your registered Cisco.com user name and password; then, click **Log In**. The Bug Search page opens.



Note If you do not have a Cisco.com user name 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.



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

Caveats

The following tables list the bug ID and headlines of open and resolved caveats in the Cisco AVS Release 5.2(1)SV3(1.3b).

Table 2 *Open Caveats*

Bug ID	Headline
CSCuu06444	Warning in VMware vSphere Client: Duplicate address while adding VMKs mapped to VTEP.
CSCut91697	OpFlex vmk marked incorrect; OpFlex goes down when OpFlex vmk is deleted.
CSCur39123	Reloading one top of rack (TOR) switch can stop traffic until TOR comes back up with VXLAN load balancing.
CSCur61811	OpFlex takes more than 2-3 minutes to come up when you have multiple Cisco AVS.
CSCus70669	OpFlex stuck in discovery with Cisco Nexus 1000 and Cisco AVS upgrade.
CSCus63872	In a Layer 2 extended topology, endpoints that have not sent out a join might receive multicast traffic.

Table 3 **Resolved Caveats**

Bug ID	Headline
CSCut13619	Two OpFlex channels appear between Cisco AVS and leaf in non-VPC setups.
CSCur62114	Reloading FI may stop traffic for few minutes with VXLAN load balancing.
CSCus76022	Endpoint VM fails to receive multicast traffic.
CSCus71162	MAC-pinning based port-channel needs a legend in the show port-c sum.
CSCur39118	Toggling uplinks can stop ping traffic for 5 minutes with VXLAN load balancing.
CSCus38206	In MAC pinning mode, VMs pinned to non-OpFlex vmknics don't receive multicast traffic.
CSCus57882	SPAN session continues to work with admin state set to stop.
CSCus83814	EP is removed on leaf after storage vMotion.

Related Documentation for Cisco AVS

This section lists the documents used with the Cisco AVS and available at the following URL:

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

- *Cisco Application Virtual Switch Installation Guide*
- *Cisco Application Virtual Switch Configuration Guide*
- *Cisco Application Virtual Switch Scalability Information*
- *Cisco Application Virtual Switch Documentation Overview*
- *Cisco Application Virtual Switch Troubleshooting Guide*

Related Documentation for Cisco APIC

This section lists the documents used with the Cisco APIC and 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>

Web-Based Documentation

- *Cisco APIC Management Information Model Reference*
- *Cisco APIC Online Help Reference*
- *Cisco APIC Python API and SDK*
- *Cisco ACI MIB Support List*

Downloadable Documentation

- *Cisco ACI Fundamentals*

- *Cisco APIC Getting Started Guide*
- *Cisco APIC REST API User Guide*
- *Cisco APIC Command Line Interface User Guide*
- *Cisco ACI Switch CLI Command Reference, NX-OS Release 11.0*
- *Cisco APIC Faults, Events, and Error Messages Guide*
- *Cisco ACI System Messages Reference Guide*
- *Cisco ACI Troubleshooting Guide*
- *Cisco NX-OS to APIC Mapping Guide*
- *Cisco APIC Layer 4 to Layer 7 Device Package Development Guide*
- *Cisco APIC Layer 4 to Layer 7 Services Deployment Guide*
- *Cisco ACI MIB Quick Reference*
- *Cisco ACI Fabric Hardware Installation Guide*
- *Cisco ACI MIB Quick Reference*
- *Cisco ACI Verified Scalability Guide*
- *Using Puppet with the APIC*
- *OpFlex API User Guide*
- *Cisco ACI Simulator Installation Guide*
- *Cisco ACI Simulator Getting Started Guide*
- *Cisco ACI Simulator Release Notes*
- *Cisco APIC Release Notes*
- *Cisco Application Centric Infrastructure Release Notes*

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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