

Cisco SD-AVC Release Notes, Release 2.0.0

Cisco SD-AVC

Overview

Cisco Software-Defined AVC (SD-AVC) is a component of Cisco AVC. It operates as a centralized network service, with specific participating devices in a network.

Cisco SD-AVC complements solutions such as:

- Cisco Intelligent WAN (IWAN)
- Cisco EasyQoS
- Application Assurance

Some of the current features and benefits provided by SD-AVC:

- Network-level application recognition consistent across the network
- Improved application recognition in symmetric and asymmetric routing environments
- Improved first packet classification
- Protocol Pack update at the network level
- Secure browser-based dashboard over HTTPS

For details, see the [Cisco SD-AVC 2.0.0 user guide](#).

New and Updated Features

New and changed features in this release:

- Updated user interface
- Improved control of Protocol Pack deployment
- Improved Microsoft Office 365 traffic classification
- Support for up to 4000 network devices operating with SD-AVC

For details, see the [Cisco SD-AVC 2.0.0 user guide](#).

Requirements and Installation

SD-AVC consists of two main components:

- **SD-AVC Network Service:** Operates as a virtualized service within a Cisco device service container, hosted on a Cisco platform. A variety of Cisco ASR1000 Series, ISR4000 Series, and CSR1000V models can function as the host platform for this component, which is installed using a downloaded OVA file.
- **SD-AVC agent:** SD-AVC can be activated on numerous devices in the network, which then communicate with the centralized SD-AVC Network Service. Activating SD-AVC on a device requires executing a few Cisco IOS commands on the device, and does not require any additional download. A variety of Cisco ASR1000 Series, ISR4000 Series, and CSR1000V models are supported. Activating SD-AVC starts an SD-AVC "agent" service on the device, which manages communication between the device and the SD-AVC Network Service.

See the user guide for:

- System requirements for platforms hosting the SD-AVC Network Service, and instructions for installing the component, using an OVA.
- System requirements for devices running SD-AVC, and instructions for activating SD-AVC.

Supported Platforms and OS

Host Platforms for SD-AVC Network Service

The following Cisco platforms can serve as host for the SD-AVC Network Service, which runs as a virtualized service. See the [user guide](#) for detailed system requirements for each platform type.

Table 1: Host Requirements

Host	OS
Cisco ASR1001-X Aggregation Services Router	Cisco IOS XE Everest 16.6.1 or later Cisco IOS XE Fuji 16.7.1 or later
Cisco ASR1002-X Aggregation Services Router	Cisco IOS XE Everest 16.6.1 or later Cisco IOS XE Fuji 16.7.1 or later
Cisco ASR1002-HX Aggregation Services Router	Cisco IOS XE Fuji 16.7.1 or later
Cisco ISR4431 Integrated Services Router	Cisco IOS XE Everest 16.6.1 or later Cisco IOS XE Fuji 16.7.1 or later
Cisco ISR4451 Integrated Services Router	Cisco IOS XE Everest 16.6.1 or later Cisco IOS XE Fuji 16.7.1 or later

Host	OS
Cisco CSR1000V Cloud Services Router	Cisco IOS XE Everest 16.6.1 or later Cisco IOS XE Fuji 16.7.1 or later

SD-AVC Agent Supported Platforms

The following Cisco platforms support operation with SD-AVC, using the SD-AVC agent. See the [user guide](#) for detailed system requirements for each platform type.

Table 2: Network Device Requirements

Platform	OS
Cisco Cisco ASR1001-X Aggregation Services Router	Cisco IOS XE Everest 16.6.2 or later Cisco IOS XE Fuji 16.7.1 or later (See note 1.)
Cisco ASR1002-X Aggregation Services Router	Cisco IOS XE Everest 16.6.2 or later Cisco IOS XE Fuji 16.7.1 or later (See note 1.)
Cisco ASR1001-HX Aggregation Services Router	Cisco IOS XE Everest 16.6.2 or later Cisco IOS XE Fuji 16.7.1 or later (See note 1.)
Cisco ASR1002-HX Aggregation Services Router	Cisco IOS XE Everest 16.6.2 or later Cisco IOS XE Fuji 16.7.1 or later (See note 1.)
Cisco 1100 Series Integrated Services Routers	Cisco IOS XE Fuji 16.7.1 or later
Cisco 4000 Series Integrated Services Routers: 4221, 4321, 4331, 4431, 4451	Cisco IOS XE Everest 16.6.2 or later Cisco IOS XE Fuji 16.7.1 or later (See note 1.)
Cisco Integrated Services Virtual Router	Cisco IOS XE Fuji 16.7.1 or later
Cisco CSR1000V Cloud Services Router	Cisco IOS XE Everest 16.6.2 or later Cisco IOS XE Fuji 16.7.1 or later (See note 1.)

Platform	OS
Cisco Route Processor RP2, operating on Cisco ASR1004, ASR1006, or ASR1013	Cisco IOS XE Everest 16.6.2 or later Cisco IOS XE Fuji 16.7.1 or later (See note 1.)
Cisco Route Processor RP3, operating on Cisco ASR1004, ASR1006, or ASR1013	Cisco IOS XE Everest 16.6.2 or later Cisco IOS XE Fuji 16.7.1 or later (See note 1.)

**Note**

- 1 Cisco IOS XE Everest 16.6.1 is supported, but with limited SD-AVC functionality. Features added in the SD-AVC 2.0.0 release are not supported.

Downloading SD-AVC

The SD-AVC Network Service is installed from an open virtual appliance (OVA) file and operates as a virtualized service on a host platform. The OVA file is available for download on the Cisco.com software download page (<http://www.cisco.com/cisco/software/navigator.html>). On the download page, specify a platform model to display software available for download. One software option will be **SD-AVC**.

Configuring the SD-AVC agent on network devices operating with the SD-AVC Network Service does not require downloading any additional software.

See the user guide for system requirements and installation instructions.

Example

To display the SD-AVC OVA file(s) available for the Cisco ASR 1002-HX platform, the navigation path is:

Products > Routers > Service Provider Edge Routers > ASR 1000 Series Aggregation Services Routers > ASR 1002-HX Router

Caveats

**Note**

If you have an account on Cisco.com, you can view information on select caveats, using the Bug Search Tool (<https://tools.cisco.com/bugsearch/search>).

Resolved Caveats in SD-AVC 2.0.0

Caveats resolved in SD-AVC 2.0.0 (since release 1.1.0):

Caveat	Description
CSCvg28569	After device reload device might not cache correctly interim flows

Additional References

Topic	Document
User guide	Cisco SD-AVC User Guide, Release 2.0.0

