

Cisco Recommended SD-WAN Software Versions for Controllers and WAN Edge Routers

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Introduction

This document provides guidance to customers on how to find the most suitable SD-WAN software for Cisco SD-WAN controllers and Edge routers, which includes vEdge and Cisco IOS® XE SD-WAN devices. The information in this document is not meant to be exhaustive and is intended to serve as a general guide to customers, especially in cases of mass deployments/upgrades. Beyond these recommendations, if customers are required to run a release to utilize newer software features or hardware, the recommendation is to select Extended Maintenance release trains wherever possible.

Background Information

It covers these software/components:

- vManage
- Controllers (vBond, vSmart hosted in private and public clouds)
- Viptela OS (for vEdge100, vEdge1000, vEdge2000, vEdge5000, vEdge-Cloud, and ISR1100-4G/6G)
- Cisco IOS XE SD-WAN

Cisco performs extensive internal testing and then evaluates software quality after publishing for general availability before making a recommended release. It includes the review of any new defects filed or found against the release, severity or impact of those, as well as general field feedback. This evaluation happens for each new release.

Cisco SD-WAN Software Support Lifecycle

Each Cisco SD-WAN software release is classified as either a Standard Maintenance release or an Extended Maintenance release. This applies to WAN Edge and controller software.

Standard Maintenance Release - A sustaining support lifetime of 12 months from First Customer Shipment (FCS) with scheduled rebuilds. Examples are Cisco IOS XE Software Releases 16.9, 16.11, 17.2, 17.4, 17.5, 17.7 and 17.8 For controllers/vEdges, examples are 18.3, 19.1, 20.1, 20.4, 20.5, 20.7 and 20.8

Extended Maintenance Release - A sustaining support lifetime of 36 months from FCS with scheduled rebuilds. Examples are Cisco IOS XE Software Releases 16.10, 16.12, 17.3, 17.6 and 17.9 For controllers/vEdges, examples are 18.4, 19.2, 20.3, 20.6 and 20.9

Release 18.4/16.10 was the first Extended Maintenance SD-WAN release. Starting from Release 19.2/16.12 every subsequent third release will be an Extended Maintenance release (for example, 19.2/16.12, 17.3/20.3, 17.6/20.6)

Given that Standard Maintenance releases have much shorter support lifetimes whereas Extended Maintenance releases have longer support with more scheduled rebuilds / bug fixes, it is recommended that customers stay on Extended Maintenance releases wherever possible.

Current Releases Overview

SD-WAN Releases on CCO

Releases	Controllers/vEdge5k, ISR 1100 and vEdge cloud	vEdge 100b, vEdge 100m, vEdge 1000, vEdge 2000 Routers	Cisco IOS XE SD-WAN
Recommended releases	20.6.5.2, 20.9.4	20.6.5.2	17.6.5, 17.9.4

marked on CCO.	vManage: 20.6.5.5, 20.9.4.1	20.9.4*	
Other releases available on CCO.	20.12.1 20.11.1, 20.11.1.1 20.10.1, 20.10.1.1 20.9.1,20.9.2,20.9.3, 20.9.3.1 20.8.1 20.7.2, 20.7.1.1, 20.7.1 20.6.5.4,20.6.5.2, 20.6.5.1, 20.6.5, 20.6.4, 20.6.4.1 20.6.3.1, 20.6.3, 20.6.3.2, 20.6.2.2, 20.6.2.1, 20.6.2, 20.6.1, 20.6.1.2 20.5.1.2, 20.5.1.1, 20.5.1 20.4.2.2, 20.4.2.1, 20.4.2, 20.4.1.2 20.3.8,20.3.7,20.3.6,20.3.5, 20.3.4.2, 20.3.4.1, 20.3.4, 20.3.3.1, 20.3.3, 20.3.2.1, 20.3.2 20.1.2, 20.1.12 19.2.4, 19.2.31, 19.2.3 18.4.5, 18.4.6	20.9.3,20.9.3.1* 20.6.5.3,20.6.5.4,20.6.5.5, 20.6.4.1,20.6.3.3,20.6.3.2, 20.6.1.2 20.4.2.3 20.3.8,20.3.7.2,20.3.7.2 * Only for vEdge-2000	17.12.2 17.11.1a 17.10.1a 17.9.3a 17.8.1a 17.7.1a 17.6.3a,17.6.1,17.6.2,17.6.3,17.6.4 17.5.1a 17.4.1a, 17.4.1b 17.3.8,17.3.7,17.3.6,17.3.5,17.3.4a,17.3.3, 17.3.2, 17.3.1a 17.2.2, 17.2.1v, 17.2.1r 16.12.5, 16.12.4 16.10.6, 16.10.5
Deferred releases. Customers will not be able to download.	20.4.1,20.4.1.1 20.3.1 20.1.1, 20.1.1.1 19.3.0 19.2.2, 19.2.1, 19.2.099, 19.2.097, 19.2.0 19.1.0 18.4.4, 18.4.303, 18.4.302, 18.4.3, 18.4.1, 18.4.0 18.3.7, 18.3.6, 18.3.5, 18.3.4, 18.3.3.1, 18.3.1,	20.6.5.1, 20.6.5, 20.6.4, 20.6.3.1, 20.6.3, 20.6.2.2,20.6.2, 20.6.1 20.4.2.2, 20.4.2.1, 20.4.2, 20.4.1.2, 20.4.1,20.4.1.1 20.3.5, 20.3.4.2, 20.3.4.1, 20.3.4, 20.3.3.1, 20.3.3, 20.3.2.1, 20.3.2, 20.3.1 20.1.2, 20.1.1, 20.1.1.1, 20.1.12 19.3.0 19.2.31, 19.2.3, 19.2.2, 19.2.1, 19.2.099, 19.2.097, 19.2.0 19.1.0 18.4.6,18.4.5, 18.4.4, 18.4.303, 18.4.302,	NA NA NA 16.12.3, 16.12.2r, 16.12.1e, 16.12.1d, 16.12.1b 16.11.1a 16.10.4, 16.10.3, 16.10.3a, 16.10.3b, 16.10.2, 16.10.1 16.9.4, 16.9.3, 16.9.2, 16.9.1 NA

	18.3.0 17.2.10, 17.2.9, 17.2.8, 17.2.7, 17.2.6, 17.2.5, 17.2.4	18.4.3, 18.4.1, 18.4.0 18.3.7, 18.3.6, 18.3.5, 18.3.4, 18.3.3.1, 18.3.1, 18.3.0 17.2.10, 17.2.9, 17.2.8, 17.2.7, 17.2.6, 17.2.5, 17.2.4	
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Release 20.12 Controllers Builds

Release Number	What the Release Supports
20.12.1	First release for 20.12 train

Cisco IOS XE SD-WAN 17.12

Release Number	What the Release Supports
17.12.1a	First release for 17.12 train

Release 20.11 Controllers Builds

Release Number	What the Release Supports
20.11.1	First release for 20.11 train
20.11.1.1	Interim rebuild with a fix for CSCwf28118
20.11.1.2	Interim rebuild for vManage only with fixes for CSCwf76218 and CSCwf82344

Cisco IOS XE SD-WAN 17.11

Release Number	What the Release Supports
17.11.1a	First release for 17.11 train

Release 20.10 Controllers Builds

Release Number	What the Release Supports
20.10.1	First release for 20.10 train

20.10.1.1	Interim rebuild with a fix for CSCwf28118
20.10.1.2	Interim rebuild for vManage only with fixes for CSCwf76218 and CSCwf82344

Cisco IOS XE SD-WAN 17.10

Release Number	What the Release Supports
17.10.1a	First release for 17.10 train

Release 20.9 Controllers and vEdge Cloud, vEdge 5000, ISR1100 Series, vEdge 2000 Device Builds

Release Number	What the Release Supports
20.9.1	First release for 20.9 train
20.9.2	1st Rebuild
20.9.3	2nd Rebuild
20.9.3.1	Interim rebuild with a fix for CSCwf28118
20.9.3.2	Interim rebuild for vManage only with fixes for CSCwf76218 and CSCwf82344
20.9.4	3rd Rebuild
20.9.4.1	Interim rebuild for vManage only with a fix for CSCwh22202

Cisco IOS XE SD-WAN 17.9

Release Number	What the Release Supports
17.9.1a	First release for 17.9 train
17.9.2a	1st Rebuild

17.9.3a	2nd Rebuild
17.9.4	3rd Rebuild

Release 20.8 Controllers and vEdge Cloud, vEdge 5000, ISR1100 Series, vEdge 2000 Device Builds

Release Number	What the Release Supports
20.8.1	First release for 20.8 train

Cisco IOS XE SD-WAN 17.8

Release Number	What the Release Supports
17.8.1a	First release for 17.8 train

Release 20.7 Controllers and vEdge Cloud, vEdge 5000, ISR1100 Series, vEdge 2000 Device Builds

Release Number	What the Release Supports
20.7.1	First release for 20.7 train
20.7.1.1	First interim rebuild of 20.7.1
20.7.2	Second release for 20.7 train

Cisco IOS XE SD-WAN 17.7

Release Number	What the Release Supports
17.7.1a	First release for 17.7 train

Release 20.6 Controllers and vEdge Device Builds

Release Number	What the Release Supports
20.6.1	First release for 20.6 train
20.6.1.2	Interim rebuild with a fix for CSCwf28118

20.6.2	Second release for 20.6 train
20.6.2.1	First interim rebuild of 20.6.2 (with Log4Shell vulnerability fixes)
20.6.2.2	Second interim rebuild of 20.6.2
20.6.3	Third release for 20.6 train
20.6.3.2	Interim rebuild with a fix for CSCwf28118
20.6.3.4	Interim rebuild for vManage only with fixes for CSCwf76218 and CSCwf82344
20.6.4	Fourth Release for 20.6 Train
20.6.4.1	Interim rebuild with a fix for CSCwf28118
20.6.5 (20.6.5.1 vmanage)	Fifth Release for 20.6 Train
20.6.5.2	Interim rebuild with a fix for CSCwf28118
20.6.5.4	Interim rebuild with a fix for CSCwf34096
20.6.5.5	Interim rebuild for vManage only with fixes for CSCwf76218 and CSCwf82344

Cisco IOS XE SD-WAN 17.6

Release Number	What the Release Supports
17.6.1a	First release for 17.6 train
17.6.2	Second release for 17.6 train
17.6.3a	Third release for 17.6 train
17.6.4a	Fourth release for 17.6 train

17.6.5a	Fifth release for 17.6 train
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Cisco recommends Release 20.6.3/17.6.3a release for long-lived deployments. 20.6.3 software version is also recommend for vManage controller. It is marked as Cisco Suggested release based on software quality, stability, and longevity on the Software download page (CCO) as well.

Release 20.5 Controllers and vEdge Device Builds

Release Number	What the Release Supports
20.5.1	First release for 20.5 train
20.5.1.1	First interim rebuild of 20.5.1 (with Log4Shell vulnerability fixes)
20.5.1.2	Second interim rebuild of 20.5.1

Cisco IOS XE SD-WAN 17.5

Release Number	What the Release Supports
17.5.1a	First release for 17.5 train

Release 20.4 Controllers and vEdge Device Builds

Release Number	What the Release Supports
20.4.1	First release for 20.4 train
20.4.1.1	First interim rebuild of 20.4.1
20.4.1.2	Second interim rebuild of 20.4.1
20.4.2	Second release for 20.4 train
20.4.2.1	First interim rebuild of 20.4.2 (with Log4Shell vulnerability fixes)
20.4.2.2	Second interim rebuild of 20.4.2
20.4.2.3	Interim rebuild with a fix

	for CSCwf28118
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Cisco IOS XE SD-WAN 17.4

Release Number	What the Release Supports
17.4.1a	First release for 17.4 train
17.4.1b	Second release for 17.4 train

Release 20.3 Controllers and vEdge Device Builds

Release Number	What the Release Supports
20.3.1	First release for 20.3 train
20.3.2	Second release for 20.3 train
20.3.2.1	Interim release build for 20.3 train
20.3.3	Third release for 20.3 train
20.3.3.1	First interim rebuild of 20.3.3
20.3.4	Fouth release for 20.3 train
20.3.4.1	First interim rebuild of 20.3.4 (with Log4Shell vulnerability fixes)
20.3.4.2	Second interim rebuild of 20.3.4
20.3.5	Fifth release for 20.3 train
20.3.6	Sixth release for 20.3 train
20.3.7	Seventh release for 20.3 train
20.3.7.1	Interim rebuild with a fix for CSCwf28118

20.3.8	Eighth release for 20.3 train
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Cisco IOS XE SD-WAN 17.3

Release Number	What the Release Supports
17.3.1a	First release for 17.3 train
17.3.2	Second release for 17.3 train
17.3.3	Third release for 17.3 train
17.3.4a	Fouth release for 17.3 train
17.3.5	Fith release for 17.3 train
17.3.6	Sixth release for 17.3 train
17.3.7	Seventh release for 17.3 train
17.3.8	Eighth release for 17.3 train

Release 20.3.2/17.3.2 is the first release to support Cat 83xx/85xx platforms.

Release 20.1 Controllers and vEdge Device Builds

Release Number	What the Release Supports
20.1.1	First release for 20.1 train
20.1.1.1	Rebuild for vManage only
20.1.12	Interim rebuild preceding 20.1.2 (in fact should be read as 20.1.1.2)
20.1.2	Second release for 20.1 train

Cisco IOS XE SD-WAN 17.2

Release Number	What the Release Supports
17.2.1r	First release for 17.2 train
17.2.1v	Interim rebuild
17.2.2	Second release for 17.2 train

Release 19.2 Controllers and vEdge Device Builds

Release Number	What the Release Supports
19.2.099	First release for 19.2 train
19.2.1	Hardened release for 19.2 train
19.2.2	2 nd Rebuild in Hardened release
19.2.3	3 rd Rebuild in Hardened release
19.2.31	Interim release with critical bug fixes
19.2.4	4 th Rebuild in Hardened release

Cisco IOS XE SD-WAN 16.12

Release Number	What the Release Supports
16.12.1d	First release for 16.12.x train
16.12.2r	Hardened release for 16.12.x train
16.12.3	2 nd Rebuild in Hardened release
16.12.4	3 rd Rebuild in Hardened Release.
16.12.5	4 th Rebuild in Hardened Release

Release 18.4 Controllers and vEdge Device Builds

Release Number	What the Release Supports
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18.4.1	First release for 18.4.x train
18.4.2	2 nd Rebuild
18.4.3	3 rd Rebuild
18.4.4	4 th Rebuild
18.4.5	5 th Rebuild and Hardened Release
18.4.6	6 th Rebuild

Cisco IOS XE SD-WAN 16.10

Release Number	What the Release Supports
16.10.1	First release for 16.10 train
16.10.2	2 nd Rebuild
16.10.3	3 rd Rebuild
16.10.4	4 th Rebuild
16.10.5	5 th Rebuild
16.10.6	6 th Rebuild

Cisco SD-WAN Hardware Compatibility Matrix

The most up to date information on Cisco SD-WAN Hardware Compatibility Matrix is integrated into the Release Notes. See the Release Notes link in the Related Information section.

List of Resolved and Open Defects

The list of Resolved and Open Defects is integrated with the Release Notes. See the Release Notes link in the Related Information section.

Related Information

- [Release Notes](#)
- [Cisco SD-WAN - Release and Compatibility](#)
- [Cisco SD-WAN](#)
- [Cisco SD-WAN Configuration Guides](#)
- [Cisco SD-WAN - Release and Compatibility](#)
- [End-of-Life and End-of-Sale Notices](#)
- [Technical Support & Documentation - Cisco Systems](#)