

# Cisco Secure Firewall ASA Compatibility

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## Cisco Secure Firewall ASA Compatibility

This document lists the Secure Firewall ASA software and hardware compatibility and requirements.

### ASA and ASDM Compatibility Per Model

This section lists ASA and ASDM compatibility per model.

On the Cisco Support & Download site, the suggested release is marked with a gold star. For example:

*Figure 1: Suggested Release*



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**Note** For guidance on security issues on the ASA, and which releases contain fixes for each issue, see the [ASA Security Advisories](#).

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### ASA 9.23 and 9.22

Releases in **bold** are the recommended versions.



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- Note**
- ASDM versions are backwards compatible with all previous ASA versions, unless otherwise stated. For example, ASDM 7.22(1) can manage an ASA 5516-X on ASA 9.10(1).
  - New ASA versions require the coordinating ASDM version or a later version; you cannot use an old version of ASDM with a new version of ASA. For example, you cannot use ASDM 7.20 with ASA 9.22. For ASA maintenance releases and interims, you can continue to use the current ASDM version, unless otherwise stated. For example, you can use ASA 9.22(1.2) with ASDM 7.22(1). If an ASA maintenance release has significant new features, then usually there will be a new ASDM version required.
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Table 1: ASA and ASDM Compatibility: 9.23 and 9.22

ASA	ASDM	ASA Model								
		ASA Virtual	Firepower 1010 1010E 1120 1140 1150	Secure Firewall 1210CE 1210CP 1220CX	Secure Firewall 1230 1240 1250	Secure Firewall 3105 3110 3120 3130 3140	Firepower 4112 4115 4125 4145	Secure Firewall 4215 4225 4245	Firepower 9300	ISA 3000
9.23(1)	7.23(1)	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.22(1.1)	7.22(1)	YES	YES	YES	—	YES	YES	YES	YES	YES

## ASA 9.20 and 9.19



### Note

- ASA 9.20(x) was the final version for the Firepower 2100 series.
- ASA 9.18(x) was the final version for the Firepower 4110, 4120, 4140, 4150, and Security Modules SM-24, SM-36, and SM-44 for the Firepower 9300.
- ASDM versions are backwards compatible with all previous ASA versions, unless otherwise stated. For example, ASDM 7.19(1) can manage an ASA 5516-X on ASA 9.10(1). See the following exceptions:
  - For the Firepower 1010E, ASDM 7.19(1) is not supported. You must use 7.19(1.90)+ or 7.18(2.1).
- New ASA versions require the coordinating ASDM version or a later version; you cannot use an old version of ASDM with a new version of ASA. For example, you cannot use ASDM 7.18 with ASA 9.19. For ASA maintenance releases and interims, you can continue to use the current ASDM version, unless otherwise stated. For example, you can use ASA 9.20(1.5) with ASDM 7.20(1). If an ASA maintenance release has significant new features, then usually there will be a new ASDM version required.

Table 2: ASA and ASDM Compatibility: 9.20 and 9.19

ASA	ASDM	ASA Model								
		ASA Virtual	Firepower 1010 1120 1140 1150	Firepower 1010E	Firepower 2110 2120 2130 2140	Secure Firewall 3105 3110 3120 3130 3140	Firepower 4112 4115 4125 4145	Secure Firewall 4215 4225 4245	Firepower 9300	ISA 3000
9.20(4)	7.20(4)	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.20(3)	7.20(2)	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.20(2)	7.20(2)	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.20(1)	7.20(1)	—	—	—	—	—	—	YES	—	—
9.19(1)	7.19(1)	YES	YES	—	YES	YES	YES	—	YES	YES

## ASA 9.18 to 9.17



### Note

- ASA 9.16(x) was the final version for the ASA 5506-X, 5506H-X, 5506W-X, 5508-X, and 5516-X.
- ASDM versions are backwards compatible with all previous ASA versions, unless otherwise stated. For example, ASDM 7.17(1) can manage an ASA 5516-X on ASA 9.10(1). See the following exceptions:
  - For the Firepower 1010E, ASDM 7.19(1) is not supported. You must use 7.19(1.90)+ or 7.18(2.1).
- New ASA versions require the coordinating ASDM version or a later version; you cannot use an old version of ASDM with a new version of ASA. For example, you cannot use ASDM 7.17 with ASA 9.18. For ASA maintenance releases and interims, you can continue to use the current ASDM version, unless otherwise stated. For example, you can use ASA 9.17(1.2) with ASDM 7.17(1). If an ASA maintenance release has significant new features, then usually there will be a new ASDM version required.
- ASA 9.17(1.13) and 9.18(2) and later requires ASDM 7.18(1.152) or later. The ASA now validates whether the ASDM image is a Cisco digitally signed image. If you try to run an older ASDM image than 7.18(1.152) with an ASA version with this fix, ASDM will be blocked and the message “%ERROR: Signature not valid for file disk0:/<filename>” will be displayed at the ASA CLI. ([CSCwb05291](#), [CSCwb05264](#))

Table 3: ASA and ASDM Compatibility: 9.18 to 9.17

ASA	ASDM	ASA Model							
		ASA Virtual	Firepower 1010 1120 1140 1150	Firepower 1010E	Firepower 2110 2120 2130 2140	Secure Firewall 3110 3120 3130 3140	Firepower 4110 4112 4115 4120 4125 4140 4145 4150	Firepower 9300	ISA 3000
9.18(4)	7.19(1)95	YES	YES	YES	YES	YES	YES	YES	YES
9.18(3)	7.18(1.152)	YES	YES	YES	YES	YES	YES	YES	YES
9.18(2.218)	7.18(2.1)	—	—	YES	—	—	—	—	—
9.18(2)	7.18(1.152)	YES	YES	—	YES	YES	YES	YES	YES
9.18(1)	7.18(1)	YES	YES	—	YES	YES	YES	YES	YES
9.17(1.13)	7.18(1.152)	YES	YES	—	YES	YES	YES	YES	YES
9.17(1)	7.17(1.155)	YES	YES	—	YES	YES	YES	YES	YES

## ASA 9.16



### Note

- ASA 9.16(x) was the final version for the ASA 5506-X, 5506H-X, 5506W-X, 5508-X, and 5516-X.
- ASA 9.14(x) was the final version for the ASA 5525-X, 5545-X, and 5555-X.
- ASDM versions are backwards compatible with all previous ASA versions, unless otherwise stated. For example, ASDM 7.15(1) can manage an ASA 5516-X on ASA 9.10(1).
- New ASA versions require the coordinating ASDM version or a later version; you cannot use an old version of ASDM with a new version of ASA. For example, you cannot use ASDM 7.15 with ASA 9.16. For ASA maintenance releases and interims, you can continue to use the current ASDM version, unless otherwise stated. For example, you can use ASA 9.16(1.15) with ASDM 7.16(1). If an ASA maintenance release has significant new features, then usually there will be a new ASDM version required.
- ASA 9.16(3.19) and later requires ASDM 7.18(1.152) or later. The ASA now validates whether the ASDM image is a Cisco digitally signed image. If you try to run an older ASDM image than 7.18(1.152) with an ASA version with this fix, ASDM will be blocked and the message “%ERROR: Signature not valid for file disk0:/<filename>” will be displayed at the ASA CLI. (CSCwb05291, CSCwb05264)

Table 4: ASA and ASDM Compatibility: 9.16

ASA	ASDM	ASA Model						
		ASA 5506-X 5506H-X 5506W-X 5508-X 5516-X	ASA v	Firepower 1010 1120 1140 1150	Firepower 2110 2120 2130 2140	Firepower 4110 4112 4115 4120 4125 4140 4145 4150	Firepower 9300	ISA 3000
9.16(4)	7.18(1.152)	YES	YES	YES	YES	YES	YES	YES
9.16(3.19)	7.18(1.152)	YES	YES	YES	YES	YES	YES	YES
9.16(3)	7.16(1.150)	YES	YES	YES	YES	YES	YES	YES
9.16(2)	7.16(1.150)	YES	YES	YES	YES	YES	YES	YES
9.16(1)	7.16(1)	YES	YES	YES	YES	YES	YES	YES

## ASA 9.12



### Note

- ASA 9.12(x) was the final version for the ASA 5512-X, 5515-X, 5585-X, and ASASM.
- ASDM versions are backwards compatible with all previous ASA versions, unless otherwise stated. For example, ASDM 7.12(1) can manage an ASA 5515-X on ASA 9.10(1).
- New ASA versions require the coordinating ASDM version or a later version; you cannot use an old version of ASDM with a new version of ASA. For example, you cannot use ASDM 7.10 with ASA 9.12. For ASA maintenance releases and interims, you can continue to use the current ASDM version, unless otherwise stated. For example, you can use ASA 9.12(1.15) with ASDM 7.12(1). If an ASA maintenance release has significant new features, then usually there will be a new ASDM version required.
- ASA 9.8(4.45) and 9.12(4.50) and later require ASDM 7.18(1.152) or later. The ASA now validates whether the ASDM image is a Cisco digitally signed image. If you try to run an older ASDM image than 7.18(1.152) with an ASA version with this fix, ASDM will be blocked and the message “%ERROR: Signature not valid for file disk0:/<filename>” will be displayed at the ASA CLI. ([CSCwb05291](#), [CSCwb05264](#))

Table 5: ASA and ASDM Compatibility: 9.12

ASA	ASDM	ASA Model									
		ASA 5506-X	ASA 5512-X	ASA 5585-X	ASAv	ASASM	Firepower 2110	Firepower 4110	Firepower 4115	Firepower 9300	ISA 3000
9.12(4.50)	7.18(1.152)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.12(4)	7.12(2)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.12(3)	7.12(2)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.12(2)	7.12(2)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.12(1)	7.12(1)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

## ASA and VPN Compatibility

For ASA and VPN compatibility, see [Supported VPN Platforms, Cisco ASA 5500 Series](#).

## Firepower 4100/9300 Compatibility with ASA and Firewall Threat Defense

For the Firepower 4100/9300, you must maintain compatibility between FXOS and all ASA and Firewall Threat Defense logical devices. Upgrade FXOS before you upgrade the software. The **bold** versions in the following table are specially-qualified (enhanced testing) companion releases. Use these combinations whenever possible.

Note that for other device models, the FXOS compatibility work is done for you. In most cases, upgrading the software automatically upgrades FXOS. For the Secure Firewall 3100/4200 in multi-instance mode, the Firewall Management Center guides you through upgrading FXOS and then Firewall Threat Defense.

To upgrade:

- FXOS: From FXOS 2.2.2 and later, you can upgrade directly to any higher version. (FXOS 2.0.1–2.2.1 can upgrade as far as 2.8.1. For versions earlier than 2.0.1, you need to upgrade to each intermediate version.) Note that you cannot upgrade FXOS to a version that does not support your current logical device version. You will need to upgrade in steps: upgrade FXOS to the highest version that supports your current logical device; then upgrade your logical device to the highest version supported with that FXOS version. For example, if you want to upgrade from FXOS 2.2/ASA 9.8 to FXOS 2.13/ASA 9.19, you would have to perform the following upgrades:

1. FXOS 2.2 → FXOS 2.11 (the highest version that supports 9.8)
2. ASA 9.8 → ASA 9.17 (the highest version supported by 2.11)

3. FXOS 2.11 → FXOS 2.13

4. ASA 9.17 → ASA 9.19

- Firewall Threat Defense: Interim upgrades may be required for Firewall Threat Defense, in addition to the FXOS requirements above. For the exact upgrade path, refer to the [Firewall Management Center upgrade guide](#) for your version.
- ASA: ASA lets you upgrade directly from your current version to any higher version, noting the FXOS requirements above.



**Note** FXOS 2.8(1.125)+ and later versions do not support ASA 9.14(1) or 9.14(1.10) for ASA SNMP polls and traps; you must use 9.14(1.15)+. Other releases, such as 9.13 or 9.12, are not affected.

**Table 6: Firepower 4100/9300 Compatibility with ASA and Firewall Threat Defense**

FXOS Version	Model	ASA Version	Firewall Threat Defense Version
2.17	Firepower 4112	<b>9.23 (recommended)</b>	<b>7.7 (recommended)</b>
		9.22	7.6
		9.20	7.4
		9.19	7.3
		9.18	7.2
	Firepower 4145 Firepower 4125 Firepower 4115 Firepower 9300 SM-56 Firepower 9300 SM-48 Firepower 9300 SM-40	<b>9.23 (recommended)</b>	<b>7.7 (recommended)</b>
		9.22	7.6
		9.20	7.4
		9.19	7.3
		9.18	7.2

<b>FXOS Version</b>	<b>Model</b>	<b>ASA Version</b>	<b>Firewall Threat Defense Version</b>
2.16	Firepower 4112	<b>9.22</b> (recommended)	<b>7.6</b> (recommended)
		9.20	7.4
		9.19	7.3
		9.18	7.2
		9.17	7.1
	Firepower 4145 Firepower 4125 Firepower 4115 Firepower 9300 SM-56 Firepower 9300 SM-48 Firepower 9300 SM-40	<b>9.22</b> (recommended)	<b>7.6</b> (recommended)
		9.20	7.4
		9.19	7.3
		9.18	7.2
		9.17	7.1
2.14(1)	Firepower 4112	<b>9.20</b> (recommended)	<b>7.4</b> (recommended)
		9.19	7.3
		9.18	7.2
		9.17	7.1
		9.16	7.0
		9.14	6.6
	Firepower 4145 Firepower 4125 Firepower 4115 Firepower 9300 SM-56 Firepower 9300 SM-48 Firepower 9300 SM-40	<b>9.20</b> (recommended)	<b>7.4</b> (recommended)
		9.19	7.3
		9.18	7.2
		9.17	7.1
		9.16	7.0
		9.14	6.6

FXOS Version	Model	ASA Version	Firewall Threat Defense Version
2.13	Firepower 4112	<b>9.19</b> (recommended)	<b>7.3</b> (recommended)
		9.18	7.2
		9.17	7.1
		9.16	7.0
		9.14	6.6
	Firepower 4145 Firepower 4125 Firepower 4115 Firepower 9300 SM-56 Firepower 9300 SM-48 Firepower 9300 SM-40	<b>9.19</b> (recommended)	<b>7.3</b> (recommended)
		9.18	7.2
		9.17	7.1
		9.16	7.0
		9.14	6.6
2.12	Firepower 4112	<b>9.18</b> (recommended)	<b>7.2</b> (recommended)
		9.17	7.1
		9.16	7.0
		9.14	6.6
	Firepower 4145 Firepower 4125 Firepower 4115 Firepower 9300 SM-56 Firepower 9300 SM-48 Firepower 9300 SM-40	<b>9.18</b> (recommended)	<b>7.2</b> (recommended)
		9.17	7.1
		9.16	7.0
		9.14	6.6
		9.12	6.4
	Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110 Firepower 9300 SM-44 Firepower 9300 SM-36 Firepower 9300 SM-24	<b>9.18</b> (recommended)	<b>7.2</b> (recommended)
		9.17	7.1
		9.16	7.0
		9.14	6.6
		9.12	6.4

FXOS Version	Model	ASA Version	Firewall Threat Defense Version	
2.11	Firepower 4112	<b>9.17</b> (recommended) 9.16 9.14	<b>7.1</b> (recommended) 7.0 6.6	
	Firepower 4145 Firepower 4125 Firepower 4115	<b>9.17</b> (recommended) 9.16 9.14	<b>7.1</b> (recommended) 7.0 6.6	
	Firepower 9300 SM-56 Firepower 9300 SM-48 Firepower 9300 SM-40	9.12	6.4	
	Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110	<b>9.17</b> (recommended) 9.16 9.14 9.12	<b>7.1</b> (recommended) 7.0 6.6 6.4	
	Firepower 9300 SM-44 Firepower 9300 SM-36 Firepower 9300 SM-24	9.8		
	2.10 <b>Note</b> For compatibility with 7.0.2+ and 9.16(3.11)+, you need FXOS 2.10(1.179)+.	Firepower 4112	<b>9.16</b> (recommended) 9.14	<b>7.0</b> (recommended) 6.6
		Firepower 4145 Firepower 4125 Firepower 4115	<b>9.16</b> (recommended) 9.14 9.12	<b>7.0</b> (recommended) 6.6 6.4
		Firepower 9300 SM-56 Firepower 9300 SM-48 Firepower 9300 SM-40		
		Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110	<b>9.16</b> (recommended) 9.14 9.12 9.8	<b>7.0</b> (recommended) 6.6 6.4
		Firepower 9300 SM-44 Firepower 9300 SM-36 Firepower 9300 SM-24		

FXOS Version	Model	ASA Version	Firewall Threat Defense Version
2.9	Firepower 4112	9.14	6.6
	Firepower 4145	9.14	6.6
	Firepower 4125	9.12	6.4
	Firepower 4115		
	Firepower 9300 SM-56		
	Firepower 9300 SM-48		
	Firepower 9300 SM-40		
	Firepower 4150	9.14	6.6
	Firepower 4140	9.12	6.4
	Firepower 4120	9.8	
	Firepower 4110		
	Firepower 9300 SM-44		
	Firepower 9300 SM-36		
	Firepower 9300 SM-24		
2.8	Firepower 4112	<b>9.14</b>	<b>6.6</b> <b>Note</b> 6.6.1+ requires FXOS 2.8(1.125)+.
	Firepower 4145	<b>9.14</b> (recommended)	<b>6.6</b> (recommended)
	Firepower 4125	9.12	<b>Note</b> 6.6.1+ requires FXOS 2.8(1.125)+.
	Firepower 4115	<b>Note</b> Firepower 9300 SM-56 requires ASA 9.12(2)+	6.4
	Firepower 9300 SM-56		
	Firepower 9300 SM-48		
	Firepower 9300 SM-40		
	Firepower 4150	<b>9.14</b> (recommended)	<b>6.6</b> (recommended)
	Firepower 4140	9.12	<b>Note</b> 6.6.1+ requires FXOS 2.8(1.125)+.
	Firepower 4120	9.8	
	Firepower 4110		6.4
	Firepower 9300 SM-44		6.2.3
	Firepower 9300 SM-36		
	Firepower 9300 SM-24		

FXOS Version	Model	ASA Version	Firewall Threat Defense Version
2.6(1.157) <b>Note</b> You can now run ASA 9.12+ and FTD 6.4+ on separate modules in the same Firepower 9300 chassis	Firepower 4145	<b>9.12</b> <b>Note</b> Firepower 9300 SM-56 requires ASA 9.12.2+	<b>6.4</b>
	Firepower 4125		
	Firepower 4115		
	Firepower 9300 SM-56		
	Firepower 9300 SM-48		
	Firepower 9300 SM-40		
	Firepower 4150	<b>9.12</b> (recommended)	<b>6.4</b> (recommended)
	Firepower 4140	9.8	6.2.3
	Firepower 4120		
	Firepower 4110		
	Firepower 9300 SM-44		
	Firepower 9300 SM-36		
	Firepower 9300 SM-24		
2.6(1.131)	Firepower 9300 SM-48	<b>9.12</b>	Not supported
	Firepower 9300 SM-40		
	Firepower 4150	<b>9.12</b> (recommended)	
	Firepower 4140	9.8	
	Firepower 4120		
	Firepower 4110		
	Firepower 9300 SM-44		
	Firepower 9300 SM-36		
	Firepower 9300 SM-24		
2.3(1.73)	Firepower 4150	9.8 <b>Note</b> 9.8(2.12)+ is required for flow offload when running FXOS 2.3(1.130)+.	<b>6.2.3</b> (recommended) <b>Note</b> 6.2.3.16+ requires FXOS 2.3.1.157+
	Firepower 4140		
	Firepower 4120		
	Firepower 4110		
	Firepower 9300 SM-44		
	Firepower 9300 SM-36		
	Firepower 9300 SM-24		

FXOS Version	Model	ASA Version	Firewall Threat Defense Version
2.3(1.66)	Firepower 4150	9.8	
2.3(1.58)	Firepower 4140	<b>Note</b> 9.8(2.12)+ is required for flow offload when running FXOS 2.3(1.130)+.	
	Firepower 4120		
	Firepower 4110		
	Firepower 9300 SM-44		
	Firepower 9300 SM-36		
	Firepower 9300 SM-24		
2.2	Firepower 4150	<b>9.8</b>	Firewall Threat Defense versions are EoL
	Firepower 4140		
	Firepower 4120		
	Firepower 4110		
	Firepower 9300 SM-44		
	Firepower 9300 SM-36		
	Firepower 9300 SM-24		

## ASA and FXOS Bundle Versions

ASA platforms utilize FXOS as an underlying operating system that is included in the ASA unified image bundles. The following table lists the ASA and FXOS versions in each released bundle. The Firepower 4100/9300 are the exception; they use FXOS directly as the chassis manager while installing the ASA image as a logical device.



**Note** You cannot install ASA or FXOS separately; you must install them both as part of the bundle.

**Table 7: ASA and FXOS Bundle Versions**

ASA Bundle Version	FXOS Version
9.23(1)	2.17(0.518)
9.22(1)	2.16(0.128)
9.20(4)	2.14(3.104)
9.20(3)	2.14(2.106)
9.20(2)	2.14(1.131)
9.20(1) (Secure Firewall 4200 only)	2.14(0.11)

ASA Bundle Version	FXOS Version
9.19(1)	2.13(0.198)
9.18(3)	2.12(0.468)
9.18(2)	2.12(0.438)
9.18(1)	2.12(0.31)
9.17(1)	2.11(1.154)
9.16(3)	2.10(1.189)
9.16(2)	2.10(1.162)
9.16(1)	2.10(1.159)
9.15(1)	2.9(1.131)
9.14(3)	2.8(1.157)
9.14(2)	2.8(1.134)
9.14(1.30)	2.8(1.129)
9.14(1)	2.8(1.105)
9.13(1)	2.7(1.107)
9.12(4)	2.6(1.198)
9.12(3)	2.6(1.156)
9.12(2)	2.6(1.141)
9.12(1)	2.6(1.113)
9.10(1)	2.4(1.92)
9.9(2)	2.3(1.77)
9.9(1)	2.3(1.54)
9.8(4)	2.2(2.119)
9.8(3)	2.2(2.90)
9.8(2)	2.2(2.52)

## ASA Virtual Hypervisor Compatibility

You can deploy the ASA Virtual on the following hypervisors.



**Note** ASA virtual deployment on a platform using nested or multi-level hypervisor is not supported.

**Table 8: ASA Virtual Hypervisor Compatibility**

Hypervisor	Version and Details	ASA Virtual OS
Alibaba Cloud	<p><b>ASA 9.20 and later</b></p> <p>Alibaba Cloud supports the ASAv5, ASAv10 and ASAv30 models on the following instance types:</p> <ul style="list-style-type: none"> <li>• ecs.g5ne.large (ASAv5 and ASAv10)</li> <li>• ecs.g5ne.xlarge, ecs.g5ne.2xlarge, ecs.g5ne.4xlarge (ASAv5, ASAv10 and ASAv30)</li> </ul> <p><b>Note</b> The ASAv50 and ASAv100 are not supported on Alibaba Cloud.</p>	<p>ASA 9.23</p> <p>ASA 9.22</p> <p>ASA 9.20</p>

Hypervisor	Version and Details	ASA Virtual OS
Amazon Web Services	<p><b>ASA 9.17 and later</b></p> <p>Amazon Web Services supports the following instance types:</p> <ul style="list-style-type: none"> <li>• c5a.large, c5a.xlarge, c5a.2xlarge, c5a.4xlarge</li> <li>• c5d.large, c5d.xlarge, c5d.2xlarge, c5d.4xlarge</li> <li>• c5ad.large, c5ad.xlarge, c5ad.2xlarge, c5ad.4xlarge</li> <li>• m5n.large, m5n.xlarge, m5n.2xlarge, m5n.4xlarge</li> <li>• m5zn.large, m5zn.xlarge, m5zn.2xlarge</li> </ul> <p><b>ASA 9.14 and later</b></p> <p>Amazon Web Services supports the following instance types:</p> <ul style="list-style-type: none"> <li>• c5.4xlarge</li> <li>• c5n.large, c5n.xlarge, c5n.2xlarge, c5n.4xlarge</li> </ul> <p><b>ASA 9.13 and later</b></p> <ul style="list-style-type: none"> <li>• ASAv50 support added.</li> <li>• ASA Virtual Flexible Licensing allows any ASA Virtual license to be used on any supported ASA Virtual vCPU/memory configuration. You can deploy the ASA Virtual on a wide variety of Amazon Web Services instances types such as: <ul style="list-style-type: none"> <li>• c5.large, c5.xlarge, c5.2xlarge, c4.2xlarge, c3.2xlarge, m4.2xlarge</li> </ul> </li> </ul> <p><b>ASA 9.12 and earlier</b></p> <p>Amazon Web Services supports the ASAv10 and ASAv30 models on the following instance types:</p> <ul style="list-style-type: none"> <li>• c3.large, c4.large, and m4.large instances (ASAv10)</li> <li>• c3.xlarge, c4.xlarge, and m4.xlarge instances (ASAv30)</li> </ul> <p><b>Note</b> The ASAv100 is not supported on Amazon Web Services.</p>	<p>ASA 9.23</p> <p>ASA 9.22</p> <p>ASA 9.20</p> <p>ASA 9.19</p> <p>ASA 9.18</p> <p>ASA 9.17</p> <p>ASA 9.16</p> <p>ASA 9.15</p> <p>ASA 9.14</p> <p>ASA 9.13</p> <p>ASA 9.12</p> <p>ASA 9.10</p> <p>ASA 9.9</p> <p>ASA 9.8</p> <p>ASA 9.7</p> <p>ASA 9.6</p> <p>ASA 9.5</p> <p>ASA 9.4(1.200), 9.4(2), 9.4(3), 9.4(4)</p>

Hypervisor	Version and Details	ASA Virtual OS
Kernel-based Virtual Machine (KVM)	<ul style="list-style-type: none"> <li>• qemu-kvm, libvirt-bin, bridge-utils, virt-manager, genisoimage, virtinst, and virsh tools (part of KVM installation).</li> </ul>	ASA 9.23
		ASA 9.22
	<ul style="list-style-type: none"> <li>• Linux Ubuntu 18.04 LTS host.</li> </ul>	ASA 9.20
		ASA 9.19
	The ASA Virtual has been extensively tested on an Ubuntu 18.04 LTS host, but you can use other Linux distributions.	ASA 9.18
		ASA 9.17
	<b>ASA 9.22</b>	ASA 9.16
	<ul style="list-style-type: none"> <li>• ASAvU support added.</li> </ul>	ASA 9.15
		ASA 9.14
	<b>ASA 9.14</b>	ASA 9.13
	<ul style="list-style-type: none"> <li>• ASAv100 support added.</li> </ul>	ASA 9.12
		ASA 9.12
	<b>ASA 9.13</b>	ASA 9.10
	<ul style="list-style-type: none"> <li>• ASA Virtual Flexible Licensing allows any ASA Virtual license to be used on any supported ASA Virtual vCPU/memory configuration. You have greater flexibility when you deploy the ASA Virtual in a KVM private cloud environment.</li> </ul>	ASA 9.9
		ASA 9.8
	<b>ASA 9.8</b>	ASA 9.7
	<ul style="list-style-type: none"> <li>• ASAv50 support added.</li> </ul>	ASA 9.6
	ASA 9.5	
	ASA 9.4	
	ASA 9.3(2.200), 9.3(3)	

Hypervisor	Version and Details	ASA Virtual OS
Microsoft Azure	<p><b>ASA 9.17 and later</b></p> <p>Microsoft Azure supports the following VM sizes:</p> <ul style="list-style-type: none"> <li>• Standard_D8s_v3</li> <li>• Standard_D16s_v3</li> <li>• Standard_F8s_v2</li> <li>• Standard_F16s_v2</li> </ul> <p><b>ASA 9.15 and later</b></p> <p>Microsoft Azure supports the following VM sizes:</p> <ul style="list-style-type: none"> <li>• D5, DS5, D5_v2, DS5_v2, D16_v3</li> <li>• F16, F16s</li> </ul> <p><b>ASA 9.13 and later</b></p> <ul style="list-style-type: none"> <li>• ASA Virtual Flexible Licensing allows any ASA Virtual license to be used on any supported ASA Virtual vCPU/memory configuration. You can deploy the ASA Virtual on a wide variety of Microsoft Azure VM sizes such as. <ul style="list-style-type: none"> <li>• DS3, DS3_v2, D4, D4_v2, DS4, DS4_v2, D8_v3</li> <li>• F4, F4s, F8, F8s</li> </ul> </li> <li>• ASAv50 support added.</li> </ul> <p><b>ASA 9.12 and earlier</b></p> <p>Microsoft Azure supports the ASAv5, ASAv10, and ASAv30 models on the following VM sizes:</p> <ul style="list-style-type: none"> <li>• Standard D3 instance</li> <li>• Standard D3_v2 instance</li> </ul> <p><b>Note</b> The ASAv100 is not supported on Microsoft Azure.</p>	<p>ASA 9.23</p> <p>ASA 9.22</p> <p>ASA 9.20</p> <p>ASA 9.19</p> <p>ASA 9.18</p> <p>ASA 9.17</p> <p>ASA 9.16</p> <p>ASA 9.15</p> <p>ASA 9.14</p> <p>ASA 9.13</p> <p>ASA 9.12</p> <p>ASA 9.10</p> <p>ASA 9.9</p> <p>ASA 9.8</p> <p>ASA 9.7</p> <p>ASA 9.6(2), 9.6(3), 9.6(4)</p> <p>ASA 9.5(2.200), 9.5(3)</p>

Hypervisor	Version and Details	ASA Virtual OS
Google Cloud Platform (GCP)	<p>Google Cloud Platform (GCP) supports the ASA Virtual on the following GCP machine types:</p> <ul style="list-style-type: none"> <li>• c2-standard-4 (ASAv5, ASAv10, and ASAv30)</li> <li>• c2-standard-8 (ASAv50)</li> <li>• c2-standard-16 (ASAv100)</li> </ul>	<p>ASA 9.23            ASA 9.22            ASA 9.20            ASA 9.19            ASA 9.18            ASA 9.17            ASA 9.16            ASA 9.15</p>
OpenStack	<p>OpenStack supports the ASA Virtual:</p> <ul style="list-style-type: none"> <li>• Enabling OpenStack platform support for ASA Virtual allows you to run ASA Virtual on open source cloud platforms.</li> <li>• OpenStack uses a KVM hypervisor to manage virtual resources.</li> <li>• ASA Virtual devices are already supported on the KVM hypervisor. Therefore, there is no extra addition of kernel packages or drivers to enable OpenStack support.</li> </ul>	<p>ASA 9.23            ASA 9.22            ASA 9.20            ASA 9.19            ASA 9.18            ASA 9.17            ASA 9.16</p>

Hypervisor	Version and Details	ASA Virtual OS
Oracle Cloud Infrastructure (OCI)	Oracle Cloud Infrastructure (OCI) supports the ASA Virtual on the following OCI shape types:	
	<ul style="list-style-type: none"> <li>• VM.Standard2.4 (ASAv5, ASAv10, and ASAv30)</li> <li>• VM.Standard2.8 (ASAv50 and ASAv100)</li> </ul>	ASA 9.23 ASA 9.22 ASA 9.20 ASA 9.19 ASA 9.18 ASA 9.17 ASA 9.16 ASA 9.15
	<ul style="list-style-type: none"> <li>• Intel VM.DenseIO2.8</li> <li>• Intel VM.StandardB1.4</li> <li>• Intel VM.StandardB1.8</li> <li>• Intel VM.Standard1.4</li> <li>• Intel VM.Standard1.8</li> <li>• Intel VM.Standard2.8</li> <li>• Intel VM.Standard3.Flex</li> <li>• Intel VM.Optimized3.Flex</li> <li>• AMD VM.Standard.E4.Flex</li> </ul>	ASA 9.23 ASA 9.22 ASA 9.20 ASA 9.19

Hypervisor	Version and Details	ASA Virtual OS
VMware vSphere	<p>8.0, 7.0, 6.7, 6.5, 6.0, 5.x:</p> <ul style="list-style-type: none"> <li>• ESXi Server</li> <li>• (Optional) vCenter Server</li> <li>• vSphere Web Client, vSphere Client, or OVFTool for Windows or Linux</li> </ul> <p>See the VMware documentation for more information about vSphere and hardware requirements:  <a href="http://www.vmware.com/support/pubs/">http://www.vmware.com/support/pubs/</a></p> <p><b>Note</b>  You cannot deploy the ASA Virtual using vCloud Director.</p> <p><b>ASA 9.22</b></p> <ul style="list-style-type: none"> <li>• ASAvU support added.</li> </ul> <p><b>ASA 9.14</b></p> <ul style="list-style-type: none"> <li>• ASAv100 support added.</li> </ul> <p><b>ASA 9.13 and later</b></p> <ul style="list-style-type: none"> <li>• ASAv Flexible Licensing allows any ASA Virtual license to be used on any supported ASA Virtual vCPU/memory configuration. You have greater flexibility when you deploy the ASA Virtual in a VMware private cloud environment.</li> </ul> <p><b>ASA 9.8</b></p> <ul style="list-style-type: none"> <li>• ASAv50 support added.</li> </ul>	<p>ASA 9.23</p> <p>ASA 9.22</p> <p>ASA 9.20</p> <p>ASA 9.19</p> <p>ASA 9.18</p> <p>ASA 9.17</p> <p>ASA 9.16</p> <p>ASA 9.15</p> <p>ASA 9.14</p> <p>ASA 9.13</p> <p>ASA 9.12</p> <p>ASA 9.10</p> <p>ASA 9.9</p> <p>ASA 9.8</p> <p>ASA 9.7</p> <p>ASA 9.6</p> <p>ASA 9.5</p> <p>ASA 9.4</p> <p>ASA 9.3</p> <p>ASA 9.2</p>

Hypervisor	Version and Details	ASA Virtual OS
Microsoft Hyper-V	<p>The Microsoft Hyper-V hypervisor supports the ASAv5, ASAv10, and ASAv30 models.</p> <p><b>Note</b> The ASAv50 and ASAv100 are not supported on Microsoft Hyper-V.</p> <p><b>ASA 9.13 and later</b></p> <ul style="list-style-type: none"> <li>ASA Virtual Flexible Licensing allows any ASA Virtual license to be used on any supported ASA Virtual vCPU/memory configuration. You have greater flexibility when you deploy the ASA Virtual in a Microsoft Hyper-V private cloud environment.</li> </ul>	ASA 9.23 ASA 9.22 ASA 9.20 ASA 9.19 ASA 9.18 ASA 9.17 ASA 9.16 ASA 9.15 ASA 9.14 ASA 9.13 ASA 9.12 ASA 9.10 ASA 9.9 ASA 9.8 ASA 9.7 ASA 9.6 ASA 9.5(1.200), 9.5(2), 9.5(3)

## Security Cloud Control Compatibility with the ASA

Security Cloud Control can manage all platforms running ASA 8.4 and later (see [ASA and ASDM Compatibility Per Model, on page 1](#)), except for the ASA Services Module (ASASM), which is not supported by Security Cloud Control.

Security Cloud Control can onboard an ASA running ASA 8.3 but cannot deploy changes to it or manage it in any other way. Support is "read-only."

Security Cloud Control does not support management of the ASA FirePOWER module, which runs a different operating system from ASA. You can still use the ASA FirePOWER module in your system, but you need to manage it separately with Secure Firewall Management Center or ASDM.

There may be a Security Cloud Control feature that does not support all versions of ASA, such as ASA upgrades from pre-9.12 versions. In those cases, the Security Cloud Control documentation will list any version exceptions with the prerequisites for that feature.

## ASA REST API Compatibility

This section lists ASA REST API and ASA compatibility.



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**Note** The REST API is not supported on newer hardware models and is no longer being developed. We recommend that you instead use the ASA HTTP interface for automation. See [Cisco Secure Firewall ASA HTTP Interface for Automation](#).

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The ASA REST API is supported only on the following models starting with 9.3(2) and ending with 9.16:

- ASA Virtual
- Firepower 9300
- ISA 3000
- Firepower 4110, 4120, 4140, 4150
- ASA 5585-X
- ASA 5525-X, 5545-X, 5555-X
- ASA 5512-X, 5515-X
- ASA 5506-X, 5506H-X, 5506W-X, 5508-X, 5516-X



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**Note** The ASA 5506-X series does not support the REST API if you are running the FirePOWER module Version 6.0 or later. Disable the ASA REST API using the **no rest-api agent** command.

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## ASA and ASA FirePOWER Module Compatibility

The following table shows the ASA, ASDM, and ASA FirePOWER support. If you are using an FMC to manage ASA FirePOWER, you can ignore the ASDM requirements.

Note that:

- ASA 9.16/ASDM 7.16/Firepower 7.0 is the final version for the ASA FirePOWER module on the ASA 5508-X, 5516-X, and ISA 3000.
- ASA 9.14/ASDM 7.14/Firepower 6.6 is the final version for the ASA FirePOWER module on the ASA 5525-X, 5545-X, and 5555-X.

**Note**

- ASDM versions are backwards compatible with all previous ASA versions, unless otherwise stated. For example, ASDM 7.13(1) can manage an ASA 5516-X on ASA 9.10(1).
- ASDM is not supported for FirePOWER module management with ASA 9.8(4.45)+, 9.12(4.50)+, 9.14(4.14)+, and 9.16(3.19)+; you have to use FMC to manage the module with these releases. These ASA releases require ASDM 7.18(1.152) or later, but ASDM support for the ASA FirePOWER module ended with 7.16.
- ASDM 7.13(1) and ASDM 7.14(1) did not support ASA 5512-X, 5515-X, 5585-X, and ASASM; you must upgrade to ASDM 7.13(1.101) or 7.14(1.48) to restore ASDM support.

**Table 9: ASA and ASA FirePOWER Compatibility**

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model		
			5508-X 5516-X	5525-X 5545-X 5555-X	ISA 3000
7.0	ASDM 7.16	ASA 9.16 9.12	YES	—	YES
6.4.0	ASDM 7.12 or later	ASA 9.16 (No 5525-X, 5545-X, 5555-X, 5585-X) 9.12	YES	YES	YES

## Secure Firewall 3100 Network Module Compatibility

**Table 10: Secure Firewall 3100 Network Module Compatibility**

Modules Supported	Model	ASA OS
2-port 100-Gb QSFP+ network module (FPR3K-XNM-2X100G)	<ul style="list-style-type: none"> <li>• Secure Firewall 3130</li> <li>• Secure Firewall 3140</li> </ul>	9.20(2) and later

Modules Supported	Model	ASA OS
<ul style="list-style-type: none"> <li>6-port 1G SFP Hardware Bypass Network Module, SX (multimode) (FPR3K-XNM-6X1SXF)</li> <li>6-port 10G SFP Hardware Bypass Network Module, SR (multimode) (FPR3K-XNM-6X10SRF)</li> <li>6-port 10G SFP Hardware Bypass Network Module, LR (single mode) (FPR3K-XNM-6X10LRF)</li> <li>8-port 1G Copper Hardware Bypass Network Module, RJ45 (copper) (FPR3K-XNM-8X1GF)</li> </ul>	<ul style="list-style-type: none"> <li>Secure Firewall 3110</li> <li>Secure Firewall 3120</li> <li>Secure Firewall 3130</li> <li>Secure Firewall 3140</li> </ul>	9.18(2) and later  <b>Note</b> The ASA does not support the hardware bypass functionality of these modules, but you can use them as regular interfaces.
<ul style="list-style-type: none"> <li>6-port 25G SFP Hardware Bypass Network Module, SR (multimode) (FPR3K-XNM-6X25SRF)</li> <li>6-port 25G Hardware Bypass Network Module, LR (single mode) (FPR3K-XNM-6X25LRF)</li> </ul>	<ul style="list-style-type: none"> <li>Secure Firewall 3130</li> <li>Secure Firewall 3140</li> </ul>	9.18(2) and later  <b>Note</b> The ASA does not support the hardware bypass functionality of these modules, but you can use them as regular interfaces.
<ul style="list-style-type: none"> <li>8-port 1-Gb copper hardware bypass network module, RJ45 copper (FPR3K-XNM-8X1GF)</li> <li>8-port 1/10-Gb SFP+ network module (FPR3K-XNM-8X10G)</li> <li>8-port 1/10/25-Gb ZSFP network module (FPR3K-XNM-8X25G)</li> </ul>	<ul style="list-style-type: none"> <li>Secure Firewall 3110</li> <li>Secure Firewall 3120</li> <li>Secure Firewall 3130</li> <li>Secure Firewall 3140</li> </ul>	9.17 and later
4-port 40-Gb QSFP+ network module (FPR3K-XNM-4X40G)	<ul style="list-style-type: none"> <li>Secure Firewall 3130</li> <li>Secure Firewall 3140</li> </ul>	9.17 and later

## Secure Firewall 4200 Network Module Compatibility

*Table 11: Secure Firewall 4200 Network Module Compatibility*

<b>Modules Supported</b>	<b>Model</b>	<b>ASA OS</b>
4-port 200G QSFP+ network module (FPR4K-XNM-4X200G)	<ul style="list-style-type: none"><li>• Secure Firewall 4215</li><li>• Secure Firewall 4225</li><li>• Secure Firewall 4245</li></ul>	9.20 and later

Modules Supported	Model	ASA OS
<ul style="list-style-type: none"> <li>• 8-port 1/10-Gb SFP+ network module (FPR4K-XNM-8X10G)</li> <li>• 8-port 1/10/25-Gb ZSFP network module (FPR4K-XNM-8X25G)</li> <li>• 4-port 40-Gb QSFP+ network module (FPR4K-XNM-4X40G)</li> <li>• 2-port 100-Gb QSFP+ network module (FPR4K-XNM-2X100G)</li> <li>• 6-port 1G SFP Hardware Bypass Network Module, SX (multimode) (FPR4K-XNM-6X1SXF)</li> <li>• 8-port 1-Gb copper hardware bypass network module, RJ45 copper (FPR4K-XNM-8X1GF)</li> <li>• 6-port 10G SFP Hardware Bypass Network Module, SR (multimode) (FPR4K-XNM-6X10SRF)</li> <li>• 6-port 10G SFP Hardware Bypass Network Module, LR (single mode) (FPR4K-XNM-6X10LRF)</li> <li>• 6-port 25G SFP Hardware Bypass Network Module, SR (multimode) (FPR4K-XNM-6X25SRF)</li> <li>• 6-port 25G Hardware Bypass Network Module, LR (single mode) (FPR4K-XNM-6X25LRF)</li> </ul>	<ul style="list-style-type: none"> <li>• Secure Firewall 4215</li> <li>• Secure Firewall 4225</li> <li>• Secure Firewall 4245</li> </ul>	<p>9.20 and later</p> <p><b>Note</b> The ASA does not support the hardware bypass functionality of these modules, but you can use them as regular interfaces.</p>

## Firepower 2100 Network Module Compatibility



**Note** If a network module is listed for multiple Firepower models, and the part number only differs in the model number (FPRXK-NM-*module*), then that module is compatible with the other Firepower models. For example, the FPR9K-NM-6X10SR-F module is compatible on the Firepower 2100 (FPR2K-NM-6X10SR-F) and Firepower 4100 (FPR4K-NM-6X10SR-F). See the [FXOS compatibility guide](#) for information about Firepower 4100 and 9300 network modules.

**Table 12: Firepower 2100 Network Module Compatibility**

Modules Supported	Model	ASA OS
<ul style="list-style-type: none"> <li>Firepower 6-port 1G SX FTW Network Module single-wide (FPR2K-NM-6X1SX-F)</li> <li>Firepower 6-port 10G SR FTW Network Module single-wide (FPR2K-NM-6X10SR-F)</li> <li>Firepower 6-port 10G LR FTW Network Module single-wide (FPR2K-NM-6X10LR-F)</li> </ul>	Firepower 2130 Firepower 2140	ASA 9.10 and later  <b>Note</b> The ASA does not support the hardware bypass functionality of these modules, but you can use them as regular interfaces.
Firepower 8-port 1G Network Module single-wide (FPR2K-NM-8X1G)	Firepower 2130 Firepower 2140	ASA 9.10 and later
Firepower 8-port 10G Network Module single-wide (FPR2K-NM-8X10G)	Firepower 2130 Firepower 2140	ASA 9.9 and later ASA 9.8(2), 9.8(3)

## ASA and Firewall Threat Defense Clustering External Hardware Support

Clustering will work with both Cisco and non-Cisco switches from other major switching vendors with no known interoperability issues if they comply with the following requirements and recommendations. Clustering is compatible with technologies such as vPC (Nexus), VSS (Catalyst), and StackWise & StackWise Virtual (Catalyst).

### Switch Requirements

- All third party switches must be compliant to the IEEE standard (802.3ad) Link Aggregation Control Protocol.

- EtherChannel bundling must be completed within 45 seconds when connected to Firepower devices and 33 seconds when connected to ASA devices.
- On the cluster control link, the switch must provide fully unimpeded unicast and broadcast connectivity at Layer 2 between all cluster members.
- On the cluster control link, the switch must not impose any limitations on IP addressing or the packet format above Layer 2 headers.
- On the cluster control link, the switch interfaces must support jumbo frames and be configurable for an MTU above 1600.

### Switch Recommendations

- The switch should provide uniform traffic distribution over the EtherChannel's individual links.
- The switch should have an EtherChannel load-balancing algorithm that provides traffic symmetry.
- The EtherChannel load balance hash algorithm should be configurable using the 5-tuple, 4-tuple, or 2-tuple to calculate the hash.




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**Note** For the Firepower 9300 cluster, intra-chassis clustering can operate with any switch because Firepower 9300-to-switch connections use standard interface types.

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**Note** Some switches, such as the Nexus series, do not support LACP rate fast when performing in-service software upgrades (ISSUs), so we do not recommend using ISSUs with clustering.

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## ASA and Cisco Application Policy Infrastructure Controller (APIC) Compatibility

The platforms supported include:

- ASA 5525-X, 5545-X, and 5555-X (8.6(x)—9.14(x))
- ASA 5512-X, 5515-X (8.6(x)—9.12(x))
- ASA 5585-X (8.4(x)—9.12(x))
- ASAv (9.2(x) and newer)
- Firepower 4100 and 9300 (9.6(x) and newer)
- Firepower 2100 (9.8(x) and newer)

The following table lists the supported ASA device packages, ASA versions, and APIC versions.

Table 13: ASA Device Package, ASA, and APIC Compatibility

ASA Device Package Version	Integration Model	APIC Version	ASA Version
1.3(12.4)	Cloud Orchestrator Policy Orchestration Fabric Insertion	3.1(1*)—5.0(2*)	8.4(x)—9.16(x)
1.3(12.3)	Cloud Orchestrator Policy Orchestration Fabric Insertion	3.1(1*)—4.1(1*)	8.4(x)—9.12(x)
1.3(11.22)	Cloud Orchestrator Policy Orchestration Fabric Insertion	3.1(1*)—4.0(1*)	8.4(x)—9.10(x)
1.3(10.24)	Cloud Orchestrator Policy Orchestration Fabric Insertion	3.1(1*)	8.4(x)—9.8(x)
1.2(12.3)	Policy Orchestration Fabric Insertion	3.0(2*) and older	8.4(x)—9.16(x)
1.2(12.2)	Policy Orchestration Fabric Insertion	3.0(2*) and older	8.4(x)—9.12(x)
1.2(11.16)	Policy Orchestration Fabric Insertion	3.0(2*) and older	8.4(x)—9.10(1)
1.2(10.26)	Policy Orchestration Fabric Insertion	3.0(2*)	8.4(x)—9.8(x)
1.2(9.18)	Policy Orchestration Fabric Insertion	3.0(1*)	8.4(x)—9.8(x)
1.2(8.9)	Policy Orchestration Fabric Insertion	2.2(2*)	8.4(x)—9.7(x)
1.2(7.x)	Policy Orchestration Fabric Insertion	2.1(1*)	8.4(x)—9.6(2)
1.2(6.15)	Policy Orchestration	2.0(1*)	8.4(x)—9.5(2)
1.2(5.21)	Policy Orchestration	1.3(1*)	8.4(x)—9.5(1)
1.2(5.5)	Policy Orchestration	1.2(2*)	8.4(x)—9.4(x)



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**Note** We do not recommend using any ASA device package older than 2016.

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**Note** Policy Orchestration = Service Policy Mode = Fully Managed Mode.

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**Note** Fabric Insertion = Customized ASA device package for L2-3 automation only.

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## End-of-Life Announcements

For a list of all Cisco End-of-Life platforms, see [End-of-Sale and End-of-Life Products](#).

See the following pages for ASA software and hardware End-of-Life announcements:

- Software—<https://www.cisco.com/c/en/us/products/security/asa-firepower-services/eos-eol-notice-listing.html>
- Hardware—<https://www.cisco.com/c/en/us/products/security/asa-5500-series-next-generation-firewalls/eos-eol-notice-listing.html>

## Additional Resources

See the following additional resources:

- [Cisco's Next Generation Firewall Product Line Software Release and Sustaining Bulletin](#)

