

Cisco Secure Firewall ASA Compatibility

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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.



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

ASA 9.19

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



Note 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).

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 interims, you can continue to use the current ASDM version, unless otherwise stated. For example, you can use ASA 9.19(1.2) with ASDM 7.19(1).

Table 1: ASA and ASDM Compatibility: 9.19

ASA	ASDM	ASA Model						
		ASA Virtual	Firepower 1010	Firepower 2110	Secure Firewall 3110	Firepower 4112	Firepower 9300	ISA 3000
			1120	2120	3120	4115		
			1140	2130	3130	4125		
			1150	2140	3140	4145		
9.19(1)	7.19(1)	YES	YES	YES	YES	YES	YES	YES

ASA 9.18 to 9.17

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



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).

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 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).

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 2: ASA and ASDM Compatibility: 9.18 to 9.17

ASA	ASDM	ASA Model						
		ASA Virtual	Firepower 1010 1120 1140 1150	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(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)	YES	YES	YES	YES	YES	YES	YES

ASA 9.16 to 9.15

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



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 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).

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 3: ASA and ASDM Compatibility: 9.16 to 9.15

ASA	ASDM	ASA Model						
		ASA 5506-X 5506H-X 5506W-X 5508-X 5516-X	ASAv	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
9.15(1)	7.15(1)	YES	YES	YES	YES	YES	YES	YES

ASA 9.14 to 9.13

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



Note ASA 9.14(x) was the final version for the ASA 5525-X, 5545-X, and 5555-X.

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 7.13(1) can manage an ASA 5516-X on ASA 9.10(1). 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.

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 7.13 with ASA 9.14. For ASA interims, you can continue to use the current ASDM version, unless otherwise stated. For example, you can use ASA 9.14(1.2) with ASDM 7.14(1).

ASA 9.14(4.14) 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: 9.14 to 9.13

ASA	ASDM	ASA Model							
		ASA 5506-X 5506H-X 5506W-X 5508-X 5516-X	ASA 5525-X 5545-X 5555-X	ASAv	Firepower 1010 1120 1140 1150	Firepower 2110 2120 2130 2140	Firepower 4110 4112 4115 4120 4125 4140 4145 4150	Firepower 9300	ISA 3000
9.14(4.14)	7.18(1.152)	YES	YES	YES	YES	YES	YES	YES	YES
9.14(4.6)	7.17(1.152)	YES	YES	YES	YES	YES	YES	YES	YES
9.14(4)	7.17(1)	YES	YES	YES	YES	YES	YES	YES	YES
9.14(3)	7.16(1.150)	YES	YES	YES	YES	YES	YES	YES	YES
9.14(2)	7.14(1.48)	YES	YES	YES	YES	YES	YES	YES	YES
9.14(1.30)	7.14(1.48)	YES	YES	YES	YES	YES	YES	YES	YES
9.14(1.6)	7.14(1.48)	—	—	YES (+ASAv100)	—	—	—	—	—
9.14(1)	7.14(1)	YES	YES	YES	YES	YES	YES	YES	YES

ASA	ASDM	ASA Model							
		ASA 5506-X 5506H-X 5506W-X 5508-X 5516-X	ASA 5525-X 5545-X 5555-X	ASAv	Firepower 1010 1120 1140 1150	Firepower 2110 2120 2130 2140	Firepower 4110 4112 4115 4120 4125 4140 4145 4150	Firepower 9300	ISA 3000
9.13(1)	7.13(1)	YES	YES	YES	YES	YES	YES (except 4112)	YES	YES

ASA 9.12 to 9.5

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



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 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).

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 to 9.5

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)	7.13(1.101)	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
9.10(1)	7.10(1)	YES	YES	YES	YES	YES	YES	YES	—	YES	YES
9.9(2)	7.9(2)	YES	YES	YES	YES	YES	YES	YES	—	YES	YES
9.9(1)	7.9(1)	YES	YES	YES	YES	YES	YES	YES	—	YES	YES
9.8(4.45)	7.18(1.152)	YES	YES	YES	YES	YES	YES	YES	—	YES	YES
9.8(4)	7.12(1)	YES	YES	YES	YES	YES	YES	YES	—	YES	YES
9.8(3)	7.9(2.152)	YES	YES	YES	YES	YES	YES	YES	—	YES	YES
9.8(2)	7.8(2)	YES	YES	YES	YES	YES	YES	YES	—	YES	YES
9.8(1.200)	No support	—	—	—	YES	—	—	—	—	—	—
9.8(1)	7.8(1)	YES	YES	YES	YES (+ASAv50)	YES	—	YES	—	YES	YES
9.7(1.4)	7.7(1)	YES	YES	YES	YES	YES	—	YES	—	YES	YES
9.6(4)	7.9(1)	YES	YES	YES	YES	YES	—	YES	—	YES	YES
9.6(3.1)	7.7(1)	YES	YES	YES	YES	YES	—	YES	—	YES	YES
9.6(2)	7.6(2)	YES	YES	YES	YES	YES	—	YES	—	YES	YES
9.6(1)	7.6(1)	YES	YES	YES	YES	YES	—	YES (except 4150)	—	YES	YES
9.5(3.9)	7.6(2)	YES	YES	YES	YES	YES	—	—	—	—	YES

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
9.5(2.200)	7.5(2.153)	—	—	—	YES	—	—	—	—	—	—
9.5(2.2)	7.5(2)	—	—	—	—	—	—	—	—	YES	—
9.5(2.1)	7.5(2)	—	—	—	—	—	—	—	—	YES	—
9.5(2)	7.5(2)	YES	YES	YES	YES	YES	—	—	—	—	YES
9.5(1.200)	7.5(1)	—	—	—	YES	—	—	—	—	—	—
9.5(1.5)	7.5(1.112)	YES	YES	YES	YES	YES	—	—	—	—	—
9.5(1)	7.5(1)	YES	YES	YES	YES	YES	—	—	—	—	—

ASA 9.4 to 9.3



Note ASA 9.2(x) was the final version for the ASA 5505. Later ASDM versions continue to support the ASA 5505.

ASDM versions are backwards compatible with all previous ASA versions, unless otherwise stated. For example, ASDM 7.6(2) can manage an ASA 5516-X on ASA 9.3(3).

Table 6: ASA and ASDM Compatibility: 9.4 to 9.3

ASA	ASDM	ASA Model								
		ASA 5506-X	ASA 5512-X	ASA 5585-X	ASAv	ASASM	Firepower 9300	ISA 3000		
9.4(4.5)	7.6(2)	YES	YES	YES	YES	YES	—	—		
9.4(3)	7.6(1)	YES	YES	YES	YES	YES	—	—		
9.4(2.146)	7.5(1.112)	—	—	—	—	—	YES	—		

ASA	ASDM	ASA Model						
		ASA 5506-X 5506H-X 5506W-X 5508-X 5516-X	ASA 5512-X 5515-X 5525-X 5545-X 5555-X	ASA 5585-X	ASAv	ASASM	Firepower 9300	ISA 3000
9.4(2.145)	7.5(1.112)	—	—	—	—	—	YES	—
9.4(2)	7.5(1)	YES	YES	YES	YES	YES	—	—
9.4(1.225)	7.5(1)	—	—	—	—	—	—	YES
9.4(1.200)	7.4(2)	—	—	—	YES	—	—	—
9.4(1.152)	7.4(3)	—	—	—	—	—	YES	—
9.4(1)	7.4(1)	YES	YES	YES	YES	YES	—	—
9.3(3.8)	7.4(1)	YES	YES	YES	YES	YES	—	—
9.3(3)	7.4(1)	YES	YES	YES	YES	YES	—	—
9.3(2.200)	7.3(2)	—	—	—	YES	—	—	—
9.3(2)	7.3(3)	YES (5506-X only)	YES	YES	YES	YES	—	—
	7.3(2)	YES (5506-X only)	YES	YES	YES	YES	—	—
9.3(1)	7.3(1)	—	YES	YES	YES	YES	—	—

ASA 9.2 to 9.1



Note ASA 9.2(x) was the final version for the ASA 5505. Later ASDM versions continue to support the ASA 5505.

ASDM versions are backwards compatible with all previous ASA versions, unless otherwise stated. For example, ASDM 7.4(3) can manage an ASA 5505 on ASA 9.1(1).

Table 7: ASA and ASDM Compatibility: 9.2 to 9.1

ASA	ASDM	ASA Model				
		ASA 5505	ASA 5512-X 5515-X 5525-X 5545-X 5555-X	ASA 5585-X	ASAv	ASASM
9.2(4.5)	7.4(3)	YES	YES	YES	YES	YES
9.2(4)	7.4(3)	YES	YES	YES	YES	YES
9.2(3)	7.3(1.101)	YES	YES	YES	YES	YES
9.2(2.4)	7.2(2)	YES	YES	YES	YES	YES
9.2(1)	7.2(1)	YES	YES	YES	YES	YES
9.1(7.4)	7.5(2)	YES	YES	YES	—	YES
9.1(6)	7.1(7)	YES	YES	YES	—	YES
9.1(5)	7.1(6)	YES	YES	YES	—	YES
9.1(4)	7.1(5)	YES	YES	YES	—	YES
9.1(3)	7.1(4)	YES	YES	YES	—	YES
9.1(2)	7.1(3)	YES	YES	YES	—	YES
9.1(1)	7.1(1)	YES	YES	YES	—	YES

ASA 9.0 to 8.4



Note ASA 8.7(x)/ASDM 6.7(x) was the final version for the ASA 1000V.

ASDM versions are backwards compatible with all previous ASA versions, unless otherwise stated. For example, ASDM 7.1(4) can manage an ASA 5525-X on ASA 9.0(1). See the following exceptions:

- ASA 8.7(1.1)/ASDM 6.7(1) is restricted to the ASA 1000V. This version combination is also the only combination supported by the ASA 1000V.
- ASA 8.6(1)/ASDM 6.6(1) is restricted to the ASA 5512-X through 5555-X.
- ASA 8.5(1)/ASDM 6.5(1) is restricted to the ASASM.

Table 8: ASA and ASDM Compatibility: 9.0 to 8.4

ASA	ASDM	ASA Model				
		ASA 5505	ASA 5512-X 5515-X 5525-X 5545-X 5555-X	ASA 5585-X	ASASM	ASA 1000V
9.0(4)	7.1(4)	YES	YES	YES	YES	—
9.0(3)	7.1(3)	YES	YES	YES	YES	—
9.0(2)	7.1(2)	YES	YES	YES	YES	—
9.0(1)	7.0(1)	YES	YES	YES	YES	—
8.7(1.1)	6.7(1)	—	—	—	—	YES
8.6(1)	6.6(1)	—	YES	—	—	—
8.5(1)	6.5(1)	—	—	—	YES	—
8.4(7)	7.1(3)	YES	—	YES	—	—
8.4(6)	7.1(2.102)	YES	—	YES	—	—
8.4(5)	7.0(2)	YES	—	YES	—	—
8.4(4.1)	6.4(9)	YES	—	YES	—	—
8.4(3)	6.4(7)	YES	—	YES	—	—
8.4(2)	6.4(5)	YES	—	YES	—	—
8.4(1)	6.4(1)	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 Threat Defense

The following table lists compatibility between the ASA or threat defense applications with the Firepower 4100/9300.

The FXOS versions with (EoL) appended have reached their end of life (EoL), or end of support.



Note The **bold** versions listed below are specially-qualified companion releases. You should use these software combinations whenever possible because Cisco performs enhanced testing for these combinations.



Note Firepower 1000/2100 and Secure Firewall 3100 appliances utilize FXOS only as an underlying operating system that is included in the ASA and threat defense unified image bundles.



Note FXOS 2.12/ASA 9.18/Threat Defense 7.2 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.

Table 9: ASA or Threat Defense, and Firepower 4100/9300 Compatibility

FXOS Version	Model	ASA Version	Threat Defense Version
Note FXOS 2.13(0.198)+ does 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 that are paired with 2.12(0.31)+, such as 9.13 or 9.12, are not affected.	Firepower 4112	9.19(x) (recommended)	7.3.0 (recommended)
		9.18(x)	7.2.0
		9.17(x)	7.1.0
		9.16(x)	7.0.0
		9.15(1)	6.7.0
		9.14(x)	6.6.x
	Firepower 4145	9.19(x) (recommended)	7.3.0 (recommended)
	Firepower 4125	9.18(x)	7.2.0
	Firepower 4115	9.17(x)	7.1.0
	Firepower 9300 SM-56	9.16(x)	7.0.0
Firepower 9300 SM-48	9.15(1)	6.7.0	
Firepower 9300 SM-40	9.14(x)	6.6.x	
	9.13(1)	6.5.0	
	9.12(x)	6.4.0	

FXOS Version	Model	ASA Version	Threat Defense Version
Note FXOS 2.12(0.31)+ does 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 that are paired with 2.12(0.31)+, such as 9.13 or 9.12, are not affected.	Firepower 4112	9.18(x) (recommended)	7.2.0 (recommended)
		9.17(x)	7.1.0
		9.16(x)	7.0.0
		9.15(1)	6.7.0
	Firepower 4145 Firepower 4125 Firepower 4115	9.18(x) (recommended)	7.2.0 (recommended)
		9.17(x)	7.1.0
		9.16(x)	7.0.0
		9.15(1)	6.7.0
		9.14(x)	6.6.x
		9.13(1)	6.5.0
	Firepower 9300 SM-56 Firepower 9300 SM-48 Firepower 9300 SM-40	9.12(x)	6.4.0
	Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110 Firepower 9300 SM-44 Firepower 9300 SM-36 Firepower 9300 SM-24	9.18(x) (recommended)	7.2.0 (recommended)
		9.17(x)	7.1.0
		9.16(x)	7.0.0
		9.15(1)	6.7.0
		9.14(x)	6.6.x
9.13(x)		6.5.0	
9.12(x)		6.4.0	
9.10(x)		6.3.0	
9.9(x)			
9.8(x)			

FXOS Version	Model	ASA Version	Threat Defense Version
Note FXOS 2.11(1.154)+ does 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 that are paired with 2.11(1.154)+, such as 9.13 or 9.12, are not affected.	Firepower 4112	9.17(x) (recommended)	7.1.0 (recommended)
		9.16(x)	7.0.0
		9.15(1)	6.7.0
		9.14(x)	6.6.x
	Firepower 4145 Firepower 4125 Firepower 4115	9.17(x) (recommended)	7.1.0 (recommended)
		9.16(x)	7.0.0
		9.15(1)	6.7.0
		9.14(x)	6.6.x
		9.13(1)	6.5.0
		9.12(x)	6.4.0
	Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110 Firepower 9300 SM-44 Firepower 9300 SM-36 Firepower 9300 SM-24	9.17(x) (recommended)	7.1.0 (recommended)
		9.16(x)	7.0.0
		9.15(1)	6.7.0
		9.14(x)	6.6.x
		9.13(x)	6.5.0
9.12(x)		6.4.0	
9.10(x)		6.3.0	
9.9(x) 9.8(x)			

FXOS Version	Model	ASA Version	Threat Defense Version	
<p>2.10(1.159)+</p> <p>Note FXOS 2.10(1.159)+ does not support ASA 9.14(1) or 9.14(1.10) for ASA SNMP polls and traps; you must use 9.14(1.15)+.</p> <p>Other releases that are paired with 2.10(1.159)+, such as 9.13 or 9.12, are not affected.</p> <p>However, for compatibility with 7.0.2+ and 9.16(3.11)+, you need FXOS 2.10(1.179)+.</p>	Firepower 4112	9.16(x) (recommended)	7.0.0 (recommended)	
			9.15(1)	6.7.0
			9.14(x)	6.6.x
	Firepower 4145	9.16(x) (recommended)	7.0.0 (recommended)	
	Firepower 4125	9.15(1)	6.7.0	
	Firepower 4115	9.14(x)	6.6.x	
	Firepower 9300 SM-56	9.13(1)	6.5.0	
	Firepower 9300 SM-48	9.12(x)	6.4.0	
	Firepower 9300 SM-40			
	Firepower 4150	9.16(x) (recommended)	7.0.0 (recommended)	
	Firepower 4140	9.15(1)	6.7.0	
	Firepower 4120	9.14(x)	6.6.x	
	Firepower 4110	9.13(x)	6.5.0	
	Firepower 9300 SM-44	9.12(x)	6.4.0	
	Firepower 9300 SM-36	9.10(x)	6.3.0	
Firepower 9300 SM-24	9.9(x)			
		9.8(x)		

FXOS Version	Model	ASA Version	Threat Defense Version
Note FXOS 2.9(1.131)+ does 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 that are paired with 2.9(1.131)+, such as 9.13 or 9.12, are not affected.	Firepower 4112	9.15(1) (recommended) 9.14(x)	6.7.0 (recommended) 6.6.x
	Firepower 4145	9.15(1) (recommended) 9.14(x) 9.13(1) 9.12(x)	6.7.0 (recommended) 6.6.x 6.5.0 6.4.0
	Firepower 4125		
	Firepower 4115		
	Firepower 9300 SM-56	9.15(1) (recommended) 9.14(x) 9.13(x) 9.12(x) 9.10(x) 9.9(x) 9.8(x)	6.7.0 (recommended) 6.6.x 6.5.0 6.4.0 6.3.0
	Firepower 9300 SM-48		
	Firepower 9300 SM-40		
	Firepower 4150		
	Firepower 4140		
	Firepower 4120		
	Firepower 4110		
	Firepower 9300 SM-44	9.10(x) 9.9(x) 9.8(x)	6.3.0
	Firepower 9300 SM-36		
	Firepower 9300 SM-24		

FXOS Version	Model	ASA Version	Threat Defense Version
Note FXOS 2.8(1.125)+ does 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 that are paired with 2.8(1.125)+, such as 9.13 or 9.12, are not affected.	Firepower 4112	9.14(x)	6.6.x Note 6.6.1+ requires FXOS 2.8(1.125)+.
	Firepower 4145	9.14(x) (recommended)	6.6.x (recommended)
	Firepower 4125	9.13(1)	Note 6.6.1+ requires FXOS 2.8(1.125)+.
	Firepower 4115	9.12(x)	
	Firepower 9300 SM-56	Note Firepower 9300 SM-56 requires ASA 9.12(2)+	6.5.0
	Firepower 9300 SM-48		6.4.0
	Firepower 9300 SM-40		
	Firepower 4150	9.14(x) (recommended)	6.6.x (recommended)
	Firepower 4140	9.13(x)	Note 6.6.1+ requires FXOS 2.8(1.125)+.
	Firepower 4120	9.12(x)	
	Firepower 4110	9.10(x)	6.5.0
	Firepower 9300 SM-44	9.9(x)	6.4.0
	Firepower 9300 SM-36	9.8(x)	6.3.0
	Firepower 9300 SM-24	9.6(4)	6.2.3 6.2.0
	2.7(1.92)+	Firepower 4145	9.13(1) (recommended)
Firepower 4125		9.12(x)	6.4.0
Firepower 4115		Note Firepower 9300 SM-56 requires ASA 9.12.2+	
Firepower 9300 SM-56			
Firepower 9300 SM-48			
Firepower 9300 SM-40			
Firepower 4150		9.13(1) (recommended)	6.5.0 (recommended)
Firepower 4140		9.12(x)	6.4.0
Firepower 4120		9.10(1)	6.3.0
Firepower 4110		9.9(x)	6.2.3
Firepower 9300 SM-44		9.8(x)	6.2.2
Firepower 9300 SM-36		9.6(4)	6.2.0
Firepower 9300 SM-24			

FXOS Version	Model	ASA Version	Threat Defense Version
2.6(1.157)+ Note You can now run ASA 9.12+ and FTD 6.4+ on separate modules in the same Firepower 9300 chassis	Firepower 4145 Firepower 4125 Firepower 4115	9.12(x) Note Firepower 9300 SM-56 requires ASA 9.12.2+	6.4.0
	Firepower 9300 SM-56 Firepower 9300 SM-48 Firepower 9300 SM-40		
2.6(1.131)	Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110	9.12(x) (recommended) 9.10(1) 9.9(x) 9.8(x)	6.4.0 (recommended) 6.3.0 6.2.3 6.2.2
	Firepower 9300 SM-44 Firepower 9300 SM-36 Firepower 9300 SM-24	9.6(4) Note 9.7(x) is not supported.	6.2.0 6.1.0
	Firepower 9300 SM-48 Firepower 9300 SM-40	9.12(x)	Not supported
	Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110	9.12(x) (recommended) 9.10(1) 9.9(x) 9.8(x)	
2.4(1.214)+ Note FXOS 2.4(1.238)+ is required for hardware bypass. For more information, see the Important Notes section of the Cisco Firepower 4100/9300 FXOS Release Notes, 2.4(1) .	Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110	9.10(1) (recommended) 9.9(x) 9.8(x) 9.6(3), 9.6(4)	6.3.0 (recommended) 6.2.3 6.2.2 6.2.0
	Firepower 9300 SM-44 Firepower 9300 SM-36 Firepower 9300 SM-24	Note 9.7(x) is not supported.	6.1.0

FXOS Version	Model	ASA Version	Threat Defense Version
2.4(1.101)	Firepower 4150	9.10(1) (recommended)	Not supported
	Firepower 4140	9.9(x)	
	Firepower 4120	9.8(x)	
	Firepower 4110	9.6(3), 9.6(4)	
	Firepower 9300 SM-44	Note 9.7(x) is not supported.	
	Firepower 9300 SM-36		
Firepower 9300 SM-24			
2.3(1.73)+	Firepower 4150	9.9(x) (recommended)	6.2.3 (recommended)
	Firepower 4140	9.8(x)	Note 6.2.3.16+ requires FXOS 2.3.1.157+
	Firepower 4120	9.7(x)	6.2.2
	Firepower 4110	9.6(3), 9.6(4)	6.2.0
	Firepower 9300 SM-44	Note 9.8(2.12)+ is required for flow offload when running FXOS 2.3(1.130)+.	6.1.0
	Firepower 9300 SM-36		Note 6.2.2.2+ is required for flow offload when running FXOS 2.3(1.130)+.
Firepower 9300 SM-24			
2.3(1.66) 2.3(1.58) 2.3(1.56) Note FXOS 2.3(1.56), which was briefly available on Cisco.com, is no longer supported. For more information, see the Cisco FXOS Release Notes, 2.3(1).	Firepower 4150	9.9(x) (recommended)	6.2.2 (recommended)
	Firepower 4140	9.8(x)	6.2.2
	Firepower 4120	9.7(x)	6.2.0
	Firepower 4110	9.6(3), 9.6(4)	6.1.0
	Firepower 9300 SM-44	Note 9.8(2.12)+ is required for flow offload when running FXOS 2.3(1.130)+.	Note 6.2.2.2+ is required for flow offload when running FXOS 2.3(1.130)+.
	Firepower 9300 SM-36		
Firepower 9300 SM-24			

FXOS Version	Model	ASA Version	Threat Defense Version
2.2(2)	Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110 Firepower 9300 SM-44 Firepower 9300 SM-36 Firepower 9300 SM-24	9.8(x) (recommended)	6.2.2 (recommended) 6.2.0 Note 6.2.2+ is required for flow offload when running FXOS 2.2(2.91)+.
2.2(1)	Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110 Firepower 9300 SM-44 Firepower 9300 SM-36 Firepower 9300 SM-24	9.8(1) (recommended) 9.7(x) Note 9.7(1.15)+ is required for flow offload.	6.2.0 (recommended) Note 6.2.0.3+ is required for flow offload.
2.1(1) (EoL)	Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110 Firepower 9300 SM-44 Firepower 9300 SM-36 Firepower 9300 SM-24	9.7(x) (recommended) 9.6(2), 9.6(3), 9.6(4)	6.2.0 (recommended) 6.1.0
2.0(1)	Firepower 4150 Firepower 4140 Firepower 4120 Firepower 4110 Firepower 9300 SM-44 Firepower 9300 SM-36 Firepower 9300 SM-24	9.6(2), 9.6(3), 9.6(4) (recommended) 9.6(1)	6.1.0 (recommended) 6.0.1

FXOS Version	Model	ASA Version	Threat Defense Version
1.1(4)	Firepower 4140	9.6(1)	6.0.1 (recommended)
	Firepower 4120		
	Firepower 4110		
	Firepower 9300 SM-36	9.6(1) (recommended)	
	Firepower 9300 SM-24	9.5(2), 9.5(3)	
1.1(3)	Firepower 9300 SM-36	9.5(2), 9.5(3) (recommended)	Not supported
	Firepower 9300 SM-24		
		9.4(2)	
1.1(2)	Firepower 9300 SM-36	9.4(2) (recommended)	Not supported
	Firepower 9300 SM-24		
		9.4(1)	
1.1(1) (EoL)	Firepower 9300 SM-36	9.4(1) (recommended)	Not supported
	Firepower 9300 SM-24		

Firepower 1000/2100 and Secure Firewall 3100 ASA and FXOS Bundle Versions

Firepower 1000/2100 and Secure Firewall 3100 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.



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

Table 10: ASA Firepower 1000/2100 and Secure Firewall 3100 ASA and FXOS Bundle Versions

ASA Bundle Version	FXOS Version
9.19(1)	2.13(0.198)
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)

ASA Bundle Version	FXOS Version
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 11: ASA Virtual Hypervisor Compatibility

Hypervisor	Version and Details	ASA Virtual OS
Alibaba Cloud	<p>ASA 9.18(x) and later</p> <p>Alibaba Cloud supports the ASAv5, ASAv10 and ASAv30 models on the following instance types:</p> <ul style="list-style-type: none"> • ecs.g5ne.large (ASAv5 and ASAv10) • ecs.g5ne.xlarge, ecs.g5ne.2xlarge, ecs.g5ne.4xlarge (ASAv5, ASAv10 and ASAv30) <p>Note The ASAv50 and ASAv100 are not supported on Alibaba Cloud.</p>	ASA 9.18(x)

Hypervisor	Version and Details	ASA Virtual OS
Amazon Web Services	<p>ASA 9.17(x) and later</p> <p>Amazon Web Services supports the following instance types:</p> <ul style="list-style-type: none"> • c5a.large, c5a.xlarge, c5a.2xlarge, c5a.4xlarge • c5d.large, c5d.xlarge, c5d.2xlarge, c5d.4xlarge • c5ad.large, c5ad.xlarge, c5ad.2xlarge, c5ad.4xlarge • m5n.large, m5n.xlarge, m5n.2xlarge, m5n.4xlarge • m5zn.large, m5zn.xlarge, m5zn.2xlarge <p>ASA 9.14(x) and later</p> <p>Amazon Web Services supports the following instance types:</p> <ul style="list-style-type: none"> • c5.4xlarge • c5n.large, c5n.xlarge, c5n.2xlarge, c5n.4xlarge <p>ASA 9.13(x) and later</p> <ul style="list-style-type: none"> • ASAv50 support added. • 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"> • c5.large, c5.xlarge, c5.2xlarge, c4.2xlarge, c3.2xlarge, m4.2xlarge <p>ASA 9.12(x) and earlier</p> <p>Amazon Web Services supports the ASAv10 and ASAv30 models on the following instance types:</p> <ul style="list-style-type: none"> • c3.large, c4.large, and m4.large instances (ASAv10) • c3.xlarge, c4.xlarge, and m4.xlarge instances (ASAv30) <p>Note The ASAv100 is not supported on Amazon Web Services.</p>	<p>ASA 9.18(x)</p> <p>ASA 9.17(x)</p> <p>ASA 9.16(x)</p> <p>ASA 9.15(x)</p> <p>ASA 9.14(x)</p> <p>ASA 9.13(x)</p> <p>ASA 9.12(x)</p> <p>ASA 9.10(x)</p> <p>ASA 9.9(x)</p> <p>ASA 9.8(x)</p> <p>ASA 9.7(x)</p> <p>ASA 9.6(x)</p> <p>ASA 9.5(x)</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"> • qemu-kvm, libvirt-bin, bridge-utils, virt-manager, genisoimage, virtinst, and virsh tools (part of KVM installation). • Linux Ubuntu 18.04 LTS host. <p>The ASA Virtual has been extensively tested on an Ubuntu 18.04 LTS host, but you can use other Linux distributions.</p> <p>ASA 9.14(x)</p> <ul style="list-style-type: none"> • ASAv100 support added. <p>ASA 9.13(x)</p> <ul style="list-style-type: none"> • 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. <p>ASA 9.8(x)</p> <ul style="list-style-type: none"> • ASAv50 support added. 	<p>ASA 9.18(x)</p> <p>ASA 9.17(x)</p> <p>ASA 9.16(x)</p> <p>ASA 9.15(x)</p> <p>ASA 9.14(x)</p> <p>ASA 9.13(x)</p> <p>ASA 9.12(x)</p> <p>ASA 9.10(x)</p> <p>ASA 9.9(x)</p> <p>ASA 9.8(x)</p> <p>ASA 9.7(x)</p> <p>ASA 9.6(x)</p> <p>ASA 9.5(x)</p> <p>ASA 9.4(x)</p> <p>ASA 9.3(2.200), 9.3(3)</p>

Hypervisor	Version and Details	ASA Virtual OS
Microsoft Azure	<p>ASA 9.17(x) and later</p> <p>Microsoft Azure supports the following instance types:</p> <ul style="list-style-type: none"> • Standard_D8s_v3 • Standard_D16s_v3 • Standard_F8s_v2 • Standard_F16s_v2 <p>ASA 9.15(x) and later</p> <p>Microsoft Azure supports the following instance types:</p> <ul style="list-style-type: none"> • D5, DS5, D5_v2, DS5_v2, D16_v3 • F16, F16s <p>ASA 9.13(x) and later</p> <ul style="list-style-type: none"> • 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 instances types such as. <ul style="list-style-type: none"> • DS3, DS3_v2, D4, D4_v2, DS4, DS4_v2, D8_v3 • F4, F4s, F8, F8s • ASAv50 support added. <p>ASA 9.12(x) and earlier</p> <p>Microsoft Azure supports the ASAv5, ASAv10, and ASAv30 models on the following instance types:</p> <ul style="list-style-type: none"> • Standard D3 instance • Standard D3_v2 instance <p>Note The ASAv100 is not supported on Microsoft Azure.</p>	<p>ASA 9.18(x)</p> <p>ASA 9.17(x)</p> <p>ASA 9.16(x)</p> <p>ASA 9.15(x)</p> <p>ASA 9.14(x)</p> <p>ASA 9.13(x)</p> <p>ASA 9.12(x)</p> <p>ASA 9.10(x)</p> <p>ASA 9.9(x)</p> <p>ASA 9.8(x)</p> <p>ASA 9.7(x)</p> <p>ASA 9.6(2), 9.6(3), 9.6(4)</p> <p>ASA 9.5(2.200), 9.5(3)</p>
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"> • c2-standard-4 (ASAv5, ASAv10, and ASAv30) • c2-standard-8 (ASAv50) • c2-standard-16 (ASAv100) 	<p>ASA 9.18(x)</p> <p>ASA 9.17(x)</p> <p>ASA 9.16(x)</p> <p>ASA 9.15(x)</p>

Hypervisor	Version and Details	ASA Virtual OS
OpenStack	<p>OpenStack supports the ASA Virtual:</p> <ul style="list-style-type: none"> • Enabling OpenStack platform support for ASA Virtual allows you to run ASA Virtual on open source cloud platforms. • OpenStack uses a KVM hypervisor to manage virtual resources. • 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. 	<p>ASA 9.18(x) ASA 9.17(x) ASA 9.16(x)</p>
Oracle Cloud Infrastructure (OCI)	<p>Oracle Cloud Infrastructure (OCI) supports the ASA Virtual on the following OCI shape types:</p> <ul style="list-style-type: none"> • VM.Standard2.4 (ASAv5, ASAv10, and ASAv30) • VM.Standard2.8 (ASAv50 and ASAv100) 	<p>ASA 9.18(x) ASA 9.17(x) ASA 9.16(x) ASA 9.15(x)</p>

Hypervisor	Version and Details	ASA Virtual OS
VMware vSphere	<p>7.0:</p> <ul style="list-style-type: none"> • ESXi Server • (Optional) vCenter Server • vSphere Web Client, vSphere Client, or OVFTool for Windows or Linux <p>See the VMware documentation for more information about vSphere and hardware requirements: http://www.vmware.com/support/pubs/</p> <p>Note You cannot deploy the ASA Virtual using vCloud Director.</p>	<p>ASA 9.18(x)</p> <p>ASA 9.17(x)</p> <p>ASA 9.16(x)</p>
	<p>6.0, 6.5, 6.7:</p> <ul style="list-style-type: none"> • ESXi Server • (Optional) vCenter Server • vSphere Web Client, vSphere Client, or OVFTool for Windows or Linux <p>See the VMware documentation for more information about vSphere and hardware requirements: http://www.vmware.com/support/pubs/</p> <p>Note You cannot deploy the ASA Virtual using vCloud Director.</p> <p>ASA 9.14(x)</p> <ul style="list-style-type: none"> • ASAv100 support added. <p>ASA 9.13(x) and later</p> <ul style="list-style-type: none"> • 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. <p>ASA 9.8(x)</p> <ul style="list-style-type: none"> • ASAv50 support added. 	<p>ASA 9.18(x)</p> <p>ASA 9.17(x)</p> <p>ASA 9.16(x)</p> <p>ASA 9.15(x)</p> <p>ASA 9.14(x)</p> <p>ASA 9.13(x)</p> <p>ASA 9.12(x)</p> <p>ASA 9.10(x)</p> <p>ASA 9.9(x)</p> <p>ASA 9.8(x)</p> <p>ASA 9.7(x)</p> <p>ASA 9.6(x)</p> <p>ASA 9.5(x)</p> <p>ASA 9.4(x)</p> <p>ASA 9.3(x)</p> <p>ASA 9.2(x)</p>

Hypervisor	Version and Details	ASA Virtual OS
	<p>5.x:</p> <ul style="list-style-type: none"> • ESXi Server • vCenter Server • vSphere Web Client or vSphere Client for Windows or Linux <p>See the VMware documentation for more information about vSphere and hardware requirements: http://www.vmware.com/support/pubs/</p> <p>Note You cannot install the ASA Virtual directly on an ESXi host without using vCenter.</p> <p>Note You cannot deploy the ASA Virtual using vCloud Director.</p>	<p>ASA 9.13(x)</p> <p>ASA 9.12(x)</p> <p>ASA 9.10(x)</p> <p>ASA 9.9(x)</p> <p>ASA 9.8(x) (ASAv50 support added)</p> <p>ASA 9.7(x)</p> <p>ASA 9.6(x)</p> <p>ASA 9.5(x)</p> <p>ASA 9.4(1.200), 9.4(2), 9.4(3), 9.4(4)</p>
	<ul style="list-style-type: none"> • You can now install the ASA Virtual directly on an ESXi host without using vCenter. • OVFTool support 	<p>ASA 9.18(x)</p> <p>ASA 9.17(x)</p> <p>ASA 9.16(x)</p> <p>ASA 9.15(x)</p> <p>ASA 9.14(x) (ASAv100 support added)</p> <p>ASA 9.13(x)</p> <p>ASA 9.12(x)</p> <p>ASA 9.10(x)</p> <p>ASA 9.9(x)</p> <p>ASA 9.8(x) (ASAv50 support added)</p> <p>ASA 9.7(x)</p> <p>ASA 9.6(x)</p> <p>ASA 9.5(x)</p> <p>ASA 9.4(1.200), 9.4(2), 9.4(3), 9.4(4)</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>Note The ASAv50 and ASAv100 are not supported on Microsoft Hyper-V.</p> <p>ASA 9.13(x) and later</p> <ul style="list-style-type: none"> 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. 	<p>ASA 9.18(x)</p> <p>ASA 9.17(x)</p> <p>ASA 9.16(x)</p> <p>ASA 9.15(x)</p> <p>ASA 9.14(x)</p> <p>ASA 9.13(x)</p> <p>ASA 9.12(x)</p> <p>ASA 9.10(x)</p> <p>ASA 9.9(x)</p> <p>ASA 9.8(x)</p> <p>ASA 9.7(x)</p> <p>ASA 9.6(x)</p> <p>ASA 9.5(1.200), 9.5(2), 9.5(3)</p>

Cisco Defense Orchestrator (CDO) Compatibility with the ASA

CDO 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 CDO.

CDO 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."

CDO 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 Firepower Management Center or ASDM.

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

ASA Services Module, IOS, and Switch Compatibility

The following table shows the switch hardware and software compatibility.



Note ASA 9.12(x)/ASDM 7.12(x) was the final version for the ASASM.

Table 12: Support for the ASASM

ASA OS	Switch Hardware	Supervisor Engine or Route Switch Processor	Cisco IOS Release
9.12(x) 9.10(x) 9.9(x) 9.8(x) 9.7(x) 9.6(x) 9.5(x) 9.4(x) 9.3(x) 9.2(x) 9.1(x) 9.0(x)	Cisco 7604, 7609-S, 7613-S	SUP 2T with MSFC5 & PFC4 (VS-S2T-10G) SUP 2T with MSFC5 & PFC4XL (VS-S2T-10G-XL)	15.1(1)SY+
9.12(x) 9.10(x) 9.9(x) 9.8(x) 9.7(x) 9.6(x) 9.5(x) 9.4(x) 9.3(x) 9.2(x) 9.1(x) 9.0(x)	Cisco 7606-S, 7609-S	RSP 720 with 10GE ports, MSFC4 & PFC-3C (RSP720-3C-10GE) RSP 720 with 10GE ports, MSFC4 & PFC-3CXL (RSP720-3CXL-10GE) RSP 720 with 2GE ports, MSFC4 & PFC-3C (RSP720-3C-GE) RSP 720 with 2GE ports, MSFC4 & PFC-3CXL (RSP720-3CXL-GE) SUP 720 with MSFC3 & PFC3B (WS-SUP720-3B) SUP 720 with MSFC3 & PFC3BXL (WS-SUP720-3BXL)	15.2(4)S2+

ASA OS	Switch Hardware	Supervisor Engine or Route Switch Processor	Cisco IOS Release
9.12(x) 9.10(x) 9.9(x) 9.8(x) 9.7(x) 9.6(x) 9.5(x) 9.4(x) 9.3(x) 9.2(x) 9.1(x) 9.0(x) 8.5(1.7)+	Catalyst 6500-E	SUP 2T with MSFC5 & PFC4 (VS-S2T-10G) SUP 2T with MSFC5 & PFC4XL (VS-S2T-10G-XL)	15.0(1)SY1+
9.12(x) 9.10(x) 9.9(x) 9.8(x) 9.7(x) 9.6(x) 9.5(x) 9.4(x) 9.3(x) 9.2(x) 9.1(x) 9.0(x) 8.5(1.7)+	Catalyst 6500-E	SUP 720-10GE with MSFC3 & PFC3C (VS-S720-10G-3C) SUP 720-10GE with MSFC3 & PFC3CXL (VS-S720-10G-3CXL) SUP 720 with MSFC3 & PFC3B (WS-SUP720-3B) SUP 720 with MSFC3 & PFC3BXL (WS-SUP720-3BXL)	12.2(33)SXJ2+ (Originally-supported Cisco IOS Version 12.2(33)SXJ1 has a caveat (CSCts88817) that can cause the ASASM to reload under certain circumstances. Therefore, we recommend using Version 12.2(33)SXJ2 or later.)

ASA OS	Switch Hardware	Supervisor Engine or Route Switch Processor	Cisco IOS Release
9.12(x)	Catalyst 6800 series	SUP 2T with MSFC5 & PFC4 (VS-S2T-10G)	15.1(2)SY1+
9.10(x)			
9.9(x)			
9.8(x)			
9.7(x)			
9.6(x)			
9.5(x)			
9.4(x)			
9.3(x)			
9.2(x)			
9.1(x)			
9.0(x)			
8.5(x)			

ASA REST API Compatibility

The following table lists ASA REST API and ASA compatibility.



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.

Table 13: ASA REST API Compatibility

ASA	ASA REST API	ASA Model											
		ASA 5506-X	ASA 5512-X	ASA 5525-X	ASA 5585-X	ASAv	ASASM	Firepower 1010	Firepower 2110	Firepower 4110	Firepower 4112	Firepower 9300	ISA 3000
		5506H-X	5515-X	5545-X				1120	2120	4120	4115		
		5506W-X		5555-X				1140	2130	4140	4125		
		5508-X						1150	2140	4150	4145		
		5516-X											
9.16(x)	7.16(x)	YES	—	—	—	YES	—	—	—	YES	—	YES	YES
9.15(x)	7.15(x)	YES	—	—	—	YES	—	—	—	YES	—	YES	YES
9.14(x)	7.14(x)	YES	—	YES	—	YES	—	—	—	YES	—	YES	YES

ASA	ASA REST API	ASA Model											
		ASA 5506-X 5506H-X 5506W-X 5508-X 5516-X	ASA 5512-X 5515-X	ASA 5525-X 5545-X 5555-X	ASA 5585-X	ASAv	ASASM	Firepower 1010 1120 1140 1150	Firepower 2110 2120 2130 2140	Firepower 4110 4120 4140 4150	Firepower 4112 4115 4125 4145	Firepower 9300	ISA 3000
9.13(x)	7.13(x) The version changed with this release to match the ASDM number.	YES	—	YES	—	YES	—	—	—	YES	—	YES	YES
9.12(x)	13(2346)	YES	YES	YES	YES	YES	—	—	—	YES	—	YES	YES
9.10(x)	1.3(2)	YES	YES	YES	YES	YES	—	—	—	YES	—	YES	YES
9.9(x)	1.3(2)	YES	YES	YES	YES	YES	—	—	—	YES	—	YES	YES
9.8(x)	1.3(2)	YES	YES	YES	YES	YES (+ASA50)	—	—	—	YES	—	YES	YES
9.7(1.4)	1.3(2)	YES	YES	YES	YES	YES	—	—	—	YES	—	YES	YES
9.6(4)	1.3(2)	YES	YES	YES	YES	YES	—	—	—	YES	—	YES	YES
9.6(3.1)	1.3(2)	YES	YES	YES	YES	YES	—	—	—	YES	—	YES	YES
9.6(2)	1.3(2)	YES	YES	YES	YES	YES	—	—	—	YES	—	YES	YES
9.6(1)	1.3(1)	YES	YES	YES	YES	YES	—	—	—	YES (except 4150)	—	YES	YES
9.5(3.9)	12(2200)	YES	YES	YES	YES	YES	—	—	—	—	—	—	YES
9.5(2200)	12(2200)	—	—	—	—	YES	—	—	—	—	—	—	—
9.5(2.2)	1.2(2)	—	—	—	—	—	—	—	—	—	—	YES	—
9.5(2.1)	1.2(2)	—	—	—	—	—	—	—	—	—	—	YES	—
9.5(2)	1.2(2)	YES	YES	YES	YES	YES	—	—	—	—	—	—	YES

ASA	ASA REST API	ASA Model											
		ASA 5506-X	ASA 5512-X	ASA 5525-X	ASA 5585-X	ASA v	ASASM	Firepower 1010	Firepower 2110	Firepower 4110	Firepower 4112	Firepower 9300	ISA 3000
		5506H-X	5515-X	5545-X				1120	2120	4120	4115		
		5506W-X		5555-X				1140	2130	4140	4125		
		5508-X						1150	2140	4150	4145		
	5516-X												
95(1200)	1.2(1)	—	—	—	—	YES	—	—	—	—	—	—	—
9.5(1.5)	1.2(1)	YES	YES	YES	YES	YES	—	—	—	—	—	—	—
9.5(1)	1.2(1)	YES	YES	YES	YES	YES	—	—	—	—	—	—	—
9.4(3)	1.2(1)	YES	YES	YES	YES	YES	—	—	—	—	—	—	—
	1.1(1)												
94(2.146)	1.1(2)	—	—	—	—	—	—	—	—	—	—	YES	—
94(2.145)	1.1(2)	—	—	—	—	—	—	—	—	—	—	YES	—
9.4(2)	1.2(1)	YES	YES	YES	YES	YES	—	—	—	—	—	—	—
	1.1(1)												
94(1.225)	1.2(1)	—	—	—	—	—	—	—	—	—	—	—	YES
94(1.200)	1.2(1)	—	—	—	—	YES	—	—	—	—	—	—	—
	1.1(1)												
94(1.152)	1.1(2)	—	—	—	—	—	—	—	—	—	—	YES	—
9.4(1)	1.2(1)	YES	YES	YES	YES	YES	—	—	—	—	—	—	—
	1.1(1)												
93(2.200)	1.2(1)+	—	—	—	—	YES	—	—	—	—	—	—	—
	1.1(1)												
	1.0(1)												
9.3(2)	1.2(1)	YES	YES	YES	YES	YES	—	—	—	—	—	—	—
	1.1(1)	(ASA 5506-X only)											
	1.0(1)												

Smart Licensing Agent Version per ASA Release

The following Smart Agent versions are used in ASA software for communication with the Smart Licensing server.

Table 14:

ASA Version	Smart Agent Version
9.14	4.9.3
9.13	4.9.3
9.12	4.3.6
9.10	4.3.6
9.9	1.6.14_rel/129

ASA 5506W-X Wireless Access Point Software Compatibility

The ASA 5506W-X includes a Cisco Aironet 702i wireless access point integrated into the ASA. The access point includes an *autonomous* Cisco IOS image, which enables individual device management. You can install the *lightweight* image if you want to add the ASA 5506W-X to a Cisco Unified Wireless Network and use a wireless LAN controller. See the [Converting Autonomous Access Points to Lightweight Mode](#) chapter in the Cisco Wireless Control Configuration Guide for more information about using the lightweight image in unified mode.

The following table shows the supported software for the access point as well as the supported Cisco Wireless LAN Controller software if you convert to unified mode.

Table 15: ASA 5506W-X Wireless Access Point Software Compatibility

Built-in Access Point	Cisco IOS Release	Cisco Wireless LAN Controller Release
Aironet 702i	15.3(3)JBB+	8.1.102.0+

ASA and ASA FirePOWER Module Compatibility

Compatibility Table

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(x)/ASDM 7.16(x)/Firepower 7.0.0/7.0.x is the final version for the ASA FirePOWER module on the ASA 5508-X, 5516-X, and the ISA 3000.

- ASA 9.14(x)/ASDM 7.14(x)/FirePOWER 6.6.0/6.6.x is the final version for the ASA FirePOWER module on the ASA 5525-X, 5545-X, and 5555-X.
- ASA 9.12(x)/ASDM 7.12(x)/FirePOWER 6.4.0 is the final version for the ASA FirePOWER module on the ASA 5515-X and 5585-X.
- ASA 9.9(x)/ASDM 7.9(2)/FirePOWER 6.2.3 is the final version for the ASA FirePOWER module on the ASA 5506-X series and 5512-X.

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 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 16: ASA and ASA FirePOWER Compatibility

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
7.0.x	ASDM 7.16(1)	ASA 9.16(x) ASA 9.15(x) ASA 9.14(x) ASA 9.13(x) ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(2), 9.5(3)	—	YES	—	—	—	—	YES

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
6.7.x	ASDM 7.15(1)	ASA 9.16(x) ASA 9.15(x) ASA 9.14(x) ASA 9.13(x) ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(2), 9.5(3)	—	YES	—	—	—	—	YES
6.6.x	ASDM 7.14(1)	ASA 9.16(x) (No 5525-X, 5545-X, 5555-X) ASA 9.15(x) (No 5525-X, 5545-X, 5555-X) ASA 9.14(x) ASA 9.13(x) ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(2), 9.5(3)	—	YES	—	—	YES	—	YES

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
6.5.0	ASDM 7.13(1)	ASA 9.16(x) (No 5525-X, 5545-X, 5555-X) ASA 9.15(x) (No 5525-X, 5545-X, 5555-X) ASA 9.14(x) ASA 9.13(x) ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(2), 9.5(3)	—	YES	—	—	YES	—	YES

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
6.4.0	ASDM 7.12(1)	ASA 9.16(x) (No 5515-X, 5525-X, 5545-X, 5555-X, 5585-X) ASA 9.15(x) (No 5515-X, 5525-X, 5545-X, 5555-X, 5585-X) ASA 9.14(x) (No 5515-X, 5585-X) ASA 9.13(x) (No 5515-X, 5585-X) ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(2), 9.5(3)	—	YES	—	YES	YES	YES	YES

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
6.3.0	ASDM 7.10(1)	ASA 9.16(x) (No 5515-X, 5525-X, 5545-X, 5555-X, 5585-X) ASA 9.15(x) (No 5515-X, 5525-X, 5545-X, 5555-X, 5585-X) ASA 9.14(x) (No 5515-X, 5585-X) ASA 9.13(x) (No 5515-X, 5585-X) ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(2), 9.5(3)	—	YES	—	YES	YES	YES	YES

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
6.2.3	ASDM 7.9(2)	ASA 9.16(x) (No 5506-X, 5512-X, 5515-X, 5525-X, 5545-X, 5555-X, 5585-X) ASA 9.15(x) (No 5506-X, 5512-X, 5515-X, 5525-X, 5545-X, 5555-X, 5585-X) ASA 9.14(x) (No 5506-X, 5512-X, 5515-X, 5585-X) ASA 9.13(x) (No 5506-X, 5512-X, 5515-X, 5585-X) ASA 9.12(x) (No 5506-X, 5512-X) ASA 9.10(x) (No 5506-X, 5512-X) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(2), 9.5(3) (No 5506-X)	YES	YES	YES	YES	YES	YES	—

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
6.2.2	ASDM 7.8(2)	ASA 9.16(x) (No 5506-X, 5512-X, 5515-X, 5525-X, 5545-X, 5555-X, 5585-X) ASA 9.15(x) (No 5506-X, 5512-X, 5515-X, 5525-X, 5545-X, 5555-X, 5585-X) ASA 9.14(x) (No 5506-X, 5512-X, 5515-X, 5585-X) ASA 9.13(x) (No 5506-X, 5512-X, 5515-X, 5585-X) ASA 9.12(x) (No 5506-X, 5512-X) ASA 9.10(x) (No 5506-X, 5512-X) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(2), 9.5(3) (No 5506-X)	YES	YES	YES	YES	YES	YES	—

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
6.2.0	ASDM 7.7(1)	ASA 9.16(x) (No 5506-X, 5512-X, 5515-X, 5525-X, 5545-X, 5555-X, 5585-X) ASA 9.15(x) (No 5506-X, 5512-X, 5515-X, 5525-X, 5545-X, 5555-X, 5585-X) ASA 9.14(x) (No 5506-X, 5512-X, 5515-X, 5585-X) ASA 9.13(x) (No 5506-X, 5512-X, 5515-X, 5585-X) ASA 9.12(x) (No 5506-X, 5512-X) ASA 9.10(x) (No 5506-X, 5512-X) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(2), 9.5(3) (No 5506-X)	YES	YES	YES	YES	YES	YES	—

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
6.1.0	ASDM 7.6(2)	<p>ASA 9.16(x) (No 5506-X, 5512-X, 5515-X, 5525-X, 5545-X, 5555-X, 5585-X)</p> <p>ASA 9.15(x) (No 5506-X, 5512-X, 5515-X, 5525-X, 5545-X, 5555-X, 5585-X)</p> <p>ASA 9.14(x) (No 5506-X, 5512-X, 5515-X, 5585-X)</p> <p>ASA 9.13(x) (No 5506-X, 5512-X, 5515-X, 5585-X)</p> <p>ASA 9.12(x) (No 5506-X, 5512-X)</p> <p>ASA 9.10(x) (No 5506-X, 5512-X)</p> <p>ASA 9.9(x)</p> <p>ASA 9.8(x)</p> <p>ASA 9.7(x)</p> <p>ASA 9.6(x)</p> <p>ASA 9.5(2), 9.5(3) (No 5506-X)</p>	YES	YES	YES	YES	YES	YES	—
6.0.1	ASDM 7.6(1) (no ASA 9.4(x) support with ASDM; only FMC)	<p>ASA 9.6(x)</p> <p>ASA 9.5(1.5), 9.5(2), 9.5(3)</p> <p>ASA 9.4(x)</p> <p>Due to CSCuv91730, we recommend that you upgrade to 9.4(2) and later.</p>	YES	YES	YES	YES	YES	YES	—

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
6.0.0	ASDM 7.5(1.112) (no ASA 9.4(x) support with ASDM; only FMC)	ASA 9.6(x) ASA 9.5(1.5), 9.5(2), 9.5(3) ASA 9.4(x) Due to CSCuv91730 , we recommend that you upgrade to 9.4(2) and later.	YES	YES	YES	YES	YES	YES	—

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
5.4.1.7+	ASDM 7.5(1.112) (no ASA 9.4(x) support with ASDM; only FMC)	<p>ASA 9.16(x) (No 5506-X, 5512-X, 5515-X, 5525-X, 5545-X, 5555-X, 5585-X)</p> <p>ASA 9.15(x) (No 5506-X, 5512-X, 5515-X, 5525-X, 5545-X, 5555-X, 5585-X)</p> <p>ASA 9.14(x) (No 5506-X)</p> <p>ASA 9.13(x) (No 5506-X)</p> <p>ASA 9.12(x) (No 5506-X)</p> <p>ASA 9.10(x) (No 5506-X)</p> <p>ASA 9.9(x)</p> <p>ASA 9.8(x)</p> <p>ASA 9.7(x)</p> <p>ASA 9.6(x)</p> <p>ASA 9.5(2), 9.5(3)</p> <p>ASA 9.4(x)</p> <p>ASA 9.4(1.225) (ISA 3000 only)</p> <p>ASA 9.3(2), 9.3(3) (no 5508-X or 5516-X)</p> <p>Due to CSCuv91730, we recommend that you upgrade to 9.3(3.8) or 9.4(2) and later.</p>	YES	YES	—	—	—	—	YES

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
5.4.1	ASDM 7.3(3)	ASA 9.16(x) (No 5506-X) ASA 9.15(x) (No 5506-X) ASA 9.14(x) (No 5506-X) ASA 9.13(x) (No 5506-X) ASA 9.12(x) (No 5506-X) ASA 9.10(x) (No 5506-X) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(1.5), 9.5(2), 9.5(3) ASA 9.4(x) ASA 9.3(2), 9.3(3) (5506-X only) Due to CSCuv91730 , we recommend that you upgrade to 9.3(3.8) or 9.4(2) and later.	YES	YES	—	—	—	—	—

ASA FirePOWER Version	ASDM Version (for local mgmt)	ASA Version	ASA Model						
			5506-X Series	5508-X 5516-X	5512-X	5515-X	5525-X 5545-X 5555-X	5585-X (See below for SSP notes)	ISA 3000
5.4.0.2+	—	ASA 9.14(x) (No 5512-X, 5515-X, 5585-X) ASA 9.13(x) (No 5512-X, 5515-X, 5585-X) ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(1.5), 9.5(2), 9.5(3) ASA 9.4(x) ASA 9.3(2), 9.3(3) Due to CSCuv91730 , we recommend that you upgrade to 9.3(3.8) or 9.4(2) and later.	—	—	YES	YES	YES	YES	—
5.4.0.1	—	ASA 9.2(2.4), 9.2(3), 9.2(4) Due to CSCuv91730 , we recommend that you upgrade to 9.2(4.5) and later.	—	—	YES	YES	YES	YES	—
5.3.1	—	ASA 9.2(2.4), 9.2(3), 9.2(4) Due to CSCuv91730 , we recommend that you upgrade to 9.2(4.5) and later.	—	—	YES	YES	YES	YES	—

ASA 5585-X SSP Compatibility**Same level SSPs**

ASA FirePOWER SSP -10, -20, -40, and -60

Requirements: Install in slot 1, with matching-level ASA SSP in slot 0

Mixed level SSPs

Support for the following combinations starts with version 5.4.0.1.

- ASA SSP-10/ASA FirePOWER SSP-40
- ASA SSP-20/ASA FirePOWER SSP-60
- ASA SSP-40/ASA FirePOWER SSP-60

Requirements: ASA SSP in slot 0, ASA FirePOWER SSP in slot 1



Note For the SSP40/60 combination, you might see an error message that this combination is not supported. You can ignore the message.

Secure Firewall 3100 Network Module Compatibility

Table 17: Secure Firewall 3100 Network Module Compatibility

Modules Supported	Model	ASA OS
<ul style="list-style-type: none"> • 6-port 1G SFP Fail-to-Wire Network Module, SX (multimode) (FPR3K-XNM-6X1SXF) • 6-port 10G SFP Fail-to-Wire Network Module, SR (multimode) (FPR3K-XNM-6X10SRF) • 6-port 10G SFP Fail-to-Wire Network Module, LR (single mode) (FPR3K-XNM-6X10LRF) • 8-port 1G Copper Fail-to-Wire Network Module, RJ45 (copper) (FPR3K-XNM-8X1GF) 	<ul style="list-style-type: none"> • Secure Firewall 3110 • Secure Firewall 3120 • Secure Firewall 3130 • Secure Firewall 3140 	<p>9.18(x)</p> <p>Note The ASA does not support the hardware bypass functionality of these modules, but you can use them as regular interfaces.</p>

Modules Supported	Model	ASA OS
<ul style="list-style-type: none"> 6-port 25G SFP Fail-to-Wire Network Module, SR (multimode) (FPR3K-XNM-X25SRF) 6-port 25G Fail-to-Wire Network Module, LR (single mode) (FPR3K-XNM-6X25LRF) 	<ul style="list-style-type: none"> Secure Firewall 3130 Secure Firewall 3140 	9.18(x) Note 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"> 8-port 1-Gb copper hardware bypass network module, RJ45 copper (FPR3K-XNM-8X1GF) 8-port 1/10-Gb SFP+ network module (FPR3K-XNM-8X10G) 8-port 1/10/25-Gb ZSFP network module (FPR3K-XNM-8X25G) 	<ul style="list-style-type: none"> Secure Firewall 3110 Secure Firewall 3120 Secure Firewall 3130 Secure Firewall 3140 	9.18(x) 9.17(x)
4-port 40-Gb QSFP+ network module (FPR3K-XNM-4X40G)	<ul style="list-style-type: none"> Secure Firewall 3130 Secure Firewall 3140 	9.18(x) 9.17(x)

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 18: Firepower 2100 Network Module Compatibility

Modules Supported	Model	ASA OS
<ul style="list-style-type: none"> • Firepower 6-port 1G SX FTW Network Module single-wide (FPR2K-NM-6X1SX-F) • Firepower 6-port 10G SR FTW Network Module single-wide (FPR2K-NM-6X10SR-F) • Firepower 6-port 10G LR FTW Network Module single-wide (FPR2K-NM-6X10LR-F) 	Firepower 2130 Firepower 2140	ASA 9.18(x) ASA 9.17(x) ASA 9.16(x) ASA 9.15(x) ASA 9.14(x) ASA 9.13(x) ASA 9.12(x) ASA 9.10(x) Note 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 9.18(x) ASA 9.17(x) ASA 9.16(x) ASA 9.15(x) ASA 9.14(x) ASA 9.13(x) ASA 9.12(x) ASA 9.10(x)
Firepower 8-port 10G Network Module single-wide (FPR2K-NM-8X10G)	Firepower 2130 Firepower 2140	ASA 9.18(x) ASA 9.17(x) ASA 9.16(x) ASA 9.15(x) ASA 9.14(x) ASA 9.13(x) ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(2), 9.8(3)

ASA 5585-X SSP and Network Module Compatibility



Note ASA 9.12(x)/ASDM 7.12(x) was the final release for the ASA 5585-X.

Table 19: ASA 5585-X SSP and Network Compatibility

Modules Supported	ASA OS
ASA SSP-20 and -60 <i>Requirements: Single ASA SSP in slot 0</i>	ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(x) ASA 9.4(x) ASA 9.3(x) ASA 9.2(x) ASA 9.1(x) ASA 9.0(x) ASA 8.4(x) ASA 8.2(3), 8.2(4), 8.2(5)

Modules Supported	ASA OS
ASA SSP-10 and -40 <i>Requirements: Single ASA SSP in slot 0</i>	ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(x) ASA 9.4(x) ASA 9.3(x) ASA 9.2(x) ASA 9.1(x) ASA 9.0(x) ASA 8.4(x) ASA 8.2(4), 8.2(5)
Dual ASA SSPs: <ul style="list-style-type: none"> • Dual ASA SSP-40s • Dual ASA SSP-60s <i>Requirements: Matching-level for both SSPs</i>	ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(x) ASA 9.4(x) ASA 9.3(x) ASA 9.2(x) ASA 9.1(x) ASA 9.0(x) ASA 8.4(2), 8.4(3), 8.4(4), 8.4(5), 8.4(6), 8.4(7)

Modules Supported	ASA OS
Dual ASA SSPs: <ul style="list-style-type: none"> • Dual ASA SSP-10s • Dual ASA SSP-20s <i>Requirements: Matching-level for both SSPs</i>	ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(x) ASA 9.4(x) ASA 9.3(x) ASA 9.2(x) ASA 9.1(x) ASA 9.0(x)
<ul style="list-style-type: none"> • ASA 4-port 10G Network Module • ASA 8-port 10G Network Module • ASA 20-port 1G Network Module <i>Requirements: Install one or two network modules in slot 1, with ASA SSP in slot 0</i>	ASA 9.12(x) ASA 9.10(x) ASA 9.9(x) ASA 9.8(x) ASA 9.7(x) ASA 9.6(x) ASA 9.5(x) ASA 9.4(x) ASA 9.3(x) ASA 9.2(x) ASA 9.1(2), 9.1(3), 9.1(4), 9.1(5), 9.1(6), 9.1(7) ASA 8.4(4.1), 8.4(5), 8.4(6), 8.4(7)

ASA and 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.



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



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.

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 20: 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)



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



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



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

ASA 5505 Memory

Shipping Memory

The shipping DRAM increased after February 2010; the DRAM requirements for 8.3 and higher match the newer default shipping sizes. The newer default shipping DRAM is the current maximum DRAM you can install in your unit.

See the following shipping memory for the ASA 5505:

- Internal Flash Memory (Default Shipping)—128 MB
- Total DRAM (Default Shipping), Before Feb. 2010—256 MB
- Total DRAM (Default Shipping), After Feb. 2010—512 MB

Memory Requirements

With Version 8.3 through 9.1 only the Unlimited Hosts license and the Security Plus license with failover enabled require 512 MB DRAM; other licenses can use 256 MB. For Version 9.2 and later, all ASA 5505 licenses require 512 MB.

Memory Kits

See the following DRAM memory kits available:

- 512 MB—ASA5505-MEM-512=

Viewing Memory

You can check the size of internal flash and the amount of free flash memory on the ASA by doing the following:

- ASDM—Choose **Tools > File Management**. The amounts of total and available flash memory appear on the bottom left in the pane.
- CLI—In Privileged EXEC mode, enter the **dir** command. The amounts of total and available flash memory appear on the bottom of the output.

Example:

```

ciscoasa# dir
Directory of disk0:/

43  -rwx  14358528   08:46:02 Feb 19 2007  cdisk.bin
136 -rwx  12456368   10:25:08 Feb 20 2007  asdmfile
58  -rwx  6342320   08:44:54 Feb 19 2007  asdm-600110.bin
61  -rwx  416354    11:50:58 Feb 07 2007  sslclient-win-1.1.3.173.pkg
62  -rwx  23689     08:48:04 Jan 30 2007  asal_backup.cfg
66  -rwx  425       11:45:52 Dec 05 2006  anyconnect
70  -rwx  774       05:57:48 Nov 22 2006  cvcprofile.xml
71  -rwx  338       15:48:40 Nov 29 2006  tmpAsdmCustomization430406526
72  -rwx  32        09:35:40 Dec 08 2006  LOCAL-CA-SERVER.ser
73  -rwx  2205678   07:19:22 Jan 05 2007  vpn-win32-Release-2.0.0156-k9.pkg
74  -rwx  3380111   11:39:36 Feb 12 2007  securedesktop_asa_3_2_0_56.pkg

62881792 bytes total (3854336 bytes free)

```

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](#)

