



## Feature Licenses and Specifications

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This appendix describes the feature licenses and specifications. This appendix includes the following sections:

- [Supported Platforms, page A-1](#)
- [Platform Feature Licenses, page A-1](#)
- [Security Services Module Support, page A-6](#)
- [VPN Specifications, page A-6](#)

## Supported Platforms

This software version supports the following platforms:

- ASA 5510
- ASA 5520
- ASA 5540
- PIX 515/515E
- PIX 525
- PIX 535

## Platform Feature Licenses

The following tables list the feature support for each platform license.



### Note

Items that are in italics are separate, optional licenses that you can add on to a base license. You can mix and match licenses, for example, the 10 security context license plus the Strong Encryption license; or the VPN Plus license plus the GTP/GPRS license; or all four licenses together.

**Table A-1 ASA 5500 Series Adaptive Security Appliance License Features**

Platforms and Features	Licenses			
ASA 5510	Base License		Security Plus	
Security Contexts	No support		No support	
VPN Peers	50 IPSec 50 WebVPN		150 IPSec 150 WebVPN	
Failover	None		Active/Standby	
GTP/GPRS	Not supported		Not supported	
Maximum VLANs	0		10	
Concurrent Connections*	32 K		64 K	
Max. Physical Interfaces	3 at 10/100 plus the Management interface for management traffic only (to-the-security-appliance)		Unlimited	
Encryption	Base (DES)	Add-on license: Strong (3DES/AES)	Base (DES)	Add-on license: Strong (3DES/AES)
Minimum RAM	256 MB		256 MB	
<b>Note</b> The ASA 5510 does not support VPN load balancing.				
ASA 5520	Base License		N/A	

**Table A-1 ASA 5500 Series Adaptive Security Appliance License Features (continued)**

Platforms and Features	Licenses					
Security Contexts	2	Add-on Licenses:				
		5	10			
VPN Peers	300 IPSec 300 WebVPN		Add-on license: VPN Plus 750 IPSec 750 WebVPN			
Failover	Active/Standby Active/Active					
GTP/GPRS	None		Add-on license: Enabled			
Maximum VLANs	25					
Concurrent Connections*	130 K					
Max. Physical Interfaces	Unlimited					
Encryption	Base (DES)		Add-on license: Strong (3DES/AES)			
Minimum RAM	512 MB					
ASA 5540	Base License					N/A
Security Contexts	2	Add-on licenses:				
		5	10	20	50	
VPN Peers	500 IPSec 500 WebVPN		Add-on license: VPN Plus 2000 IPSec 1250 WebVPN		Add-on license: VPN Premium 5000 IPSec 2500 WebVPN	
Failover	Active/Standby Active/Active					
GTP/GPRS	None		Add-on license: Enabled			
Maximum VLANs	100					
Concurrent Connections*	280 K					
Max. Physical Interfaces	Unlimited					
Encryption	Base (DES)		Add-on license: Strong (3DES/AES)			
Minimum RAM	1024 MB					

\* The concurrent connections are based on a traffic mix of 80% TCP and 20% UDP, with one host and one dynamic translation for every four connections.

Table A-2 PIX 500 Series Security Appliance License Features

Platforms and Features	Licenses														
PIX 515/515E*	R (Restricted)			UR (Unrestricted)			FO (Failover)**			FO-AA (Failover Active/Active)***					
Security Contexts	No support			2	Add-on license:			2	Add-on license:			2	Add-on license:		
				5			5			5					
VPN Peers	2000 IPSec			2000 IPSec			2000 IPSec			2000 IPSec					
Failover	No support			Active/Standby Active/Active			Active/Standby			Active/Standby Active/Active					
GTP/GPRS	None	Add-on license: Enabled		None	Add-on license: Enabled		None	Add-on license: Enabled		None	Add-on license: Enabled				
Maximum VLANs	10			25			25			25					
Concurrent Connections	48 K			130 K			130 K			130 K					
Max. Physical Interfaces	3			6			6			6					
Encryption	None	Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)	None	Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)	None	Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)	None	Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)			
Minimum RAM	64 MB			128 MB			128 MB			128 MB					
PIX 525*	R (Restricted)			UR (Unrestricted)			FO (Failover)**			FO-AA (Failover Active/Active)					
Security Contexts	No support			2	Add-on licenses:			2	Add-on licenses:			2	Add-on licenses:		
				5	10	20	50	5	10	20	50	5	10	20	50
VPN Peers	2000 IPSec			2000 IPSec			2000 IPSec			2000 IPSec					
Failover	No support			Active/Standby Active/Active			Active/Standby			Active/Standby Active/Active					
GTP/GPRS	None	Add-on license: Enabled		None	Add-on license: Enabled		None	Add-on license: Enabled		None	Add-on license: Enabled				
Maximum VLANs	25			100			100			100					
Concurrent Connections	140 K			280 K			280 K			280 K					
Max. Physical Interfaces	6			10			10			10					
Encryption	None	Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)	None	Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)	None	Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)	None	Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)			
Minimum RAM	128 MB			256 MB			256 MB			256 MB					

Table A-2 PIX 500 Series Security Appliance License Features (continued)

Platforms and Features	Licenses																	
PIX 535*	R (Restricted)			UR (Unrestricted)				FO (Failover)**				FO-AA (Failover Active/Active)						
Security Contexts	No support			2	Add-on licenses:				2	Add-on licenses:				2	Add-on licenses:			
					5	10	20	50		5	10	20	50		5	10	20	50
VPN Peers	2000 IPSec			2000 IPSec				2000 IPSec				2000 IPSec						
Failover	No support			Active/Standby Active/Active				Active/Standby				Active/Standby Active/Active						
GTP/GPRS	None	Add-on license: Enabled		None	Add-on license: Enabled		None	Add-on license: Enabled		None		Add-on license: Enabled						
Max. VLANs	50			150				150				150						
Concurrent Connections	250 K			500 K				500 K				500 K						
Max. Physical Interfaces	8			14				14				14						
Encryption	None	Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)	None	Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)	None	Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)	None		Add-on license: Base (DES)	Add-on license: Strong (3DES/AES)					
Minimum RAM	512 MB			1024 MB				1024 MB				1024 MB						

\* The PIX 500 series security appliance does not support WebVPN.

\*\* This license can only be used in a failover pair with another unit with a UR license. Both units must be the same model.

\*\*\* The concurrent connections are based on a traffic mix of 80% TCP and 20% UDP, with one host and one dynamic translation for every four connections.

# Security Services Module Support

Table A-3 shows the SSMs supported by each platform:

**Table A-3**      **SSM Support**

Platform	SSM Models
ASA 5510	AIP SSM 10 4GE SSM
ASA 5520	AIP SSM 10 AIP SSM 20 4GE SSM
ASA 5540	AIP SSM 10 AIP SSM 20 4GE SSM
PIX 515/515E	No support
PIX 525	No support
PIX 535	No support

## VPN Specifications

This section describes the VPN specifications for the security appliance. This section includes the following topics:

- [Cisco VPN Client Support, page A-7](#)
- [Site-to-Site VPN Compatibility, page A-7](#)
- [Cryptographic Standards, page A-8](#)

## Cisco VPN Client Support

The security appliance supports a wide variety of software and hardware-based Cisco VPN clients, as shown in [Table A-4](#).

**Table A-4** Cisco VPN Client Support

Client Type	Client Versions
Software IPsec VPN clients	Cisco VPN client for Windows, Version 3.6 or higher Cisco VPN client for Linux, Version 3.6 or higher Cisco VPN client for Solaris, Version 3.6 or higher Cisco VPN client for Mac OS X, Version 3.6 or higher
Hardware IPsec VPN clients (Cisco Easy VPN remote)	Cisco VPN 3002 hardware client, Version 3.0 or higher Cisco IOS Software Easy VPN remote, Release 12.2(8)YJ Cisco PIX 500 series security appliance, Version 6.2 or higher Cisco ASA 5500 series adaptive security appliance, Version 7.0 or higher

## Site-to-Site VPN Compatibility

In addition to providing interoperability for many third-party VPN products, the security appliance interoperates with the Cisco VPN products for site-to-site VPN connectivity shown in [Table A-5](#).

**Table A-5** Site-to-Site VPN Compatibility

Platforms	Software Versions
Cisco ASA 5500 series adaptive security appliances	Version 7.0 or higher
Cisco IOS routers	Release 12.1(6)T or higher
Cisco PIX 500 series security appliances	Version 5.1(1) or higher
Cisco VPN 3000 series concentrators	Version 2.5.2 or higher

## Cryptographic Standards

The security appliance supports numerous cryptographic standards and related third-party products and services, including those shown in [Table A-6](#).

**Table A-6**      *Cryptographic Standards*

Type	Description
Asymmetric (public key) encryption algorithms	RSA public/private key pairs, 512 bits to 4096 bits DSA public/private key pairs, 512 bits to 1024 bits
Symmetric encryption algorithms	AES—128, 192, and 256 bits DES—56 bits 3DES—168 bits RC4—40, 56, 64, and 128 bits
Perfect forward secrecy (Diffie-Hellman key negotiation)	Group 1— 768 bits Group 2—1024 bits Group 5— 1536 bits Group 7—163 bits (Elliptic Curve Diffie-Hellman)
Hash algorithms	MD5—128 bits SHA-1—160 bits
X.509 certificate authorities	Cisco IOS software Baltimore UniCERT Entrust Authority iPlanet/Netscape CMS Microsoft Certificate Services RSA Keon VeriSign OnSite
X.509 certificate enrollment methods	SCEP PKCS #7 and #10