Cisco Secure Remote Access

(Cisco ASA 5500 Series SSL/IPsec VPN Edition)

Delivering Safe, Secure, and Flexible Remote Network Access to Any Location

Today's remote-access VPN deployments require the ability to safely and easily extend corporate network access beyond managed desktops to different users, devices, and endpoints. The Cisco® ASA 5500 Series SSL/IPsec VPN Edition (also known as the Cisco Secure Remote Access solution) enables organizations to securely provide network access to a broad array of users, including mobile and fixed endpoints, remote offices, contractors, and business partners.

Supporting a wide range of deployment and application environments, the Cisco Secure Remote Access solution delivers maximum value to your organization with the most comprehensive set of Secure Socket Layer (SSL) and IP security (IPsec) Virtual Private Network (VPN) features, performance, and scalability in the industry. Cisco Secure Remote Access also provides organizations with the ability to use a powerful combination of multiple market-proven firewall, intrusion prevention (IPS), and content security technologies on a single unified platform.

Industry-Leading Remote-Access Technology for Your Organization

With inclusive support for unrestricted full-network access, as well as controlled access to select web-based applications and network resources, Cisco Secure Remote Access provides the flexibility required for any VPN deployment (Figure 1). The solution is easy to deploy and simple to use, offering both client and clientless options. It solves the unique challenges associated with diverse user groups and endpoints accessing the enterprise network, by offering granular access controls, depending on the user or endpoint, and robust endpoint security that maintains the integrity of confidential information.

Figure 1. Customizable SSL VPN and IPsec Services for Any Deployment Scenario

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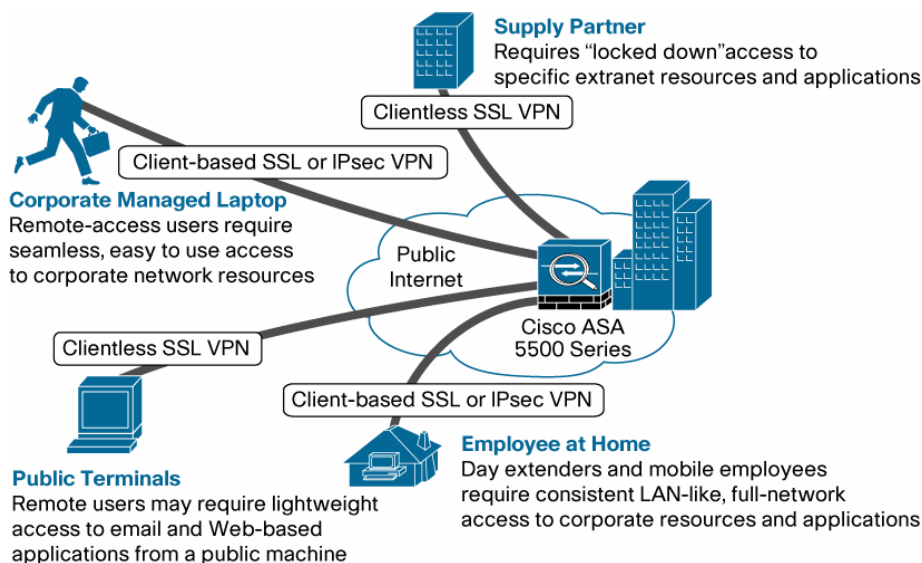
Cisco ASA 5500 Series SSL VPN: Profile and Benefits
Deployment flexibility: Extends the appropriate SSL VPN technology, either clientless or full-network access, on a per-session basis, depending on the user group or endpoint accessing the network.
Comprehensive network access: Broad application and network resource access is provided through the Cisco AnyConnect VPN Client, an automatically downloadable network-tunneling client that provides access to virtually any application or resource.
Optimized network performance: The Cisco AnyConnect VPN Client provides an optimized VPN connection for latency-sensitive traffic, such as voice over IP (VoIP) traffic or TCP-based application access.
Ubiquitous clientless access: Delivers secure remote access to authenticated users on both managed and unmanaged endpoints, enabling increased productivity by providing "anytime access" to the network.
Granular control: Empowers network and IT management with additional tools to provide controlled access to corporate network resources and applications.
Unparalleled management flexibility: Simplifies the complexity of managing diverse remote-access connectivity requirements common in today's enterprise.
Low total cost of ownership: Reduces expensive help-desk calls associated with network connectivity issues and eliminates the administration costs of managing VPN client software on every endpoint.

Combined Technologies for Enhanced Capabilities: SSL and IPsec VPN in One Platform

In addition to the SSL VPN features, users can also take advantage of Cisco's award-winning IPsec VPN technology. By offering converged SSL and IPsec VPN technologies on one platform, Cisco Secure Remote Access delivers a highly customizable one-box solution for diverse VPN deployment environments, eliminating the cost of deploying parallel remote-access solutions.

Cisco ASA 5500 Product Family

The Cisco ASA 5500 Series delivers site-specific scalability from the smallest business and small office/home office (SOHO) deployments to the largest enterprise networks with its seven models: the 5505, 5510, 5520, 5540, 5550, 5580-20, and 5580-40 (Figure 2). Each model is built with concurrent services scalability, investment protection, and future technology extensibility as its foundation. Table 1 lists the specifications of the Cisco ASA 5500 Series models.

Figure 2. Cisco ASA 5500 Series Products

Table 1. Specifications of Cisco ASA 5500 Series Adaptive Security Appliance Models

Platform	Cisco ASA 5505	Cisco ASA 5510	Cisco ASA 5520	Cisco ASA 5540	Cisco ASA 5550	Cisco ASA 5580-20	Cisco ASA 5580-40
Maximum VPN throughput	100 Mbps	170 Mbps	225 Mbps	325 Mbps	425 Mbps	1 Gbps	1 Gbps
Maximum concurrent SSL VPN sessions[1]	25	250	750	2500	5000	10,000	10,000
Maximum concurrent IPsec VPN sessions[1]	25	250	750	5000	5000	10,000	10,000
Interfaces	Eight 10/100 copper Ethernet ports with dynamic port grouping. Includes two Power over Ethernet (PoE) ports, three USB ports	Three 10/100/1000 copper Ethernet ports, one out-of-band management port, two USB ports	Four 10/100/1000 copper Ethernet ports, one out-of-band management port, two USB ports	Four 10/100/1000 copper Ethernet ports, one out-of-band management port, two USB ports	Eight Gigabit Ethernet ports, four small form factor-pluggable (SFP) fiber ports, one Fast Ethernet port	Two USB ports, two RJ-45 management ports, two Gigabit Ethernet management ports With interface expansion cards: • Up to twelve 10Gigabit Ethernet (10GE) ports • Up to twenty-four Gigabit Ethernet ports • Up to twenty-four 10/100/1000 Ethernet ports	Two USB ports, two RJ-45 management ports, two Gigabit Ethernet management ports With interface expansion cards: • Up to twelve 10GE ports • Up to twenty-four Gigabit Ethernet ports • Up to twenty-four 10/100/1000 Ethernet ports
Profile	Desktop	1-RU	1-RU	1-RU	1-RU	4-RU	4-RU
Stateful failover	No	Licensed feature[2]	Yes	Yes	Yes	Yes	Yes
VPN load balancing	No	Licensed feature[2]	Yes	Yes	Yes	Yes	Yes
Shared VPN License Option	No	Yes	Yes	Yes	Yes	Yes	Yes

Ordering Information

Tables 2 and 3 provide a subset of ordering information for Cisco AnyConnect Premium SSL VPN Edition Bundles and AnyConnect Essentials. For additional licensing details, please see the Cisco Secure Remote Access: VPN Licensing Overview document. Premium licenses may be purchased for either single devices or for a shared environment.

All Cisco ASA 5500 Series appliances include the maximum number of IPsec concurrent users in the base configuration of the chassis. Every Cisco ASA 5500 Series model can support SSL VPN through the purchase of an SSL VPN license. SSL VPN on the Cisco ASA 5500 Series may be purchased under a single part number as an edition bundle, or the chassis and SSL VPN feature license may be purchased separately, as indicated in Table 3. To place an order, visit the Cisco Ordering Home Page.

Table 2. Ordering Information for Premium Bundles (Single Device)

SSL VPN User Requirements	Premium VPN Bundles	Edition Bundle Part Number
10 SSL VPN users	Cisco ASA 5505 SSL/IPsec VPN Edition for 10 concurrent SSL VPN users (AnyConnect Premium—SSL VPN Edition)	ASA5505-SSL10-K9
25 SSL VPN users	Cisco ASA 5505 SSL/IPsec VPN Edition for 25 concurrent SSL VPN users (AnyConnect Premium—SSL VPN Edition)	ASA5505-SSL25-K9

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[1] Devices include a license for two SSL VPN users for evaluation and remote management purposes. The total concurrent IPsec and SSL (clientless and tunnel-based) VPN sessions may not exceed the maximum concurrent IPsec session count shown in the chart. The SSL VPN session number may also not exceed the number of licensed sessions on the device. The ASA 5580 supports greater simultaneous users than the ASA 5550 at comparable overall SSL VPN throughput to the ASA 5550. These items should be taken in to consideration as part of your capacity planning.
[2] Upgrade is available with Cisco ASA 5510 Security Plus license.

SSL VPN User Requirements	Premium VPN Bundles	Edition Bundle Part Number
50 SSL VPN users	Cisco ASA 5510 SSL/IPsec VPN Edition for 50 concurrent SSL VPN users (AnyConnect Premium—SSL VPN Edition)	ASA5510-SSL50-K9
100 SSL VPN users	Cisco ASA 5510 SSL/IPsec VPN Edition for 100 concurrent SSL VPN users (AnyConnect Premium—SSL VPN Edition)	ASA5510-SSL100-K9
250 SSL VPN users	Cisco ASA 5510 SSL/IPsec VPN Edition for 250 concurrent SSL VPN users (AnyConnect Premium—SSL VPN Edition)	ASA5510-SSL250-K9
500 SSL VPN users	Cisco ASA 5520 SSL/IPsec VPN Edition for 500 concurrent SSL VPN users (AnyConnect Premium—SSL VPN Edition)	ASA5520-SSL500-K9
1000 SSL VPN users	Cisco ASA 5540 SSL/IPsec VPN Edition for 1000 concurrent SSL VPN users (AnyConnect Premium—SSL VPN Edition)	ASA5540-SSL1000-K9
2500 SSL VPN users	Cisco ASA 5540 SSL/IPsec VPN Edition for 2500 concurrent SSL VPN users (AnyConnect Premium—SSL VPN Edition)	ASA5540-SSL2500-K9
2500 SSL VPN users	Cisco ASA 5550 SSL/IPsec VPN Edition for 2500 concurrent SSL VPN users (AnyConnect Premium—SSL VPN Edition)	ASA5550-SSL2500-K9
5000 SSL VPN users	Cisco ASA 5550 SSL/IPsec VPN Edition for 5000 concurrent SSL VPN users (AnyConnect Premium—SSL VPN Edition)	ASA5550-SSL5000-K9
10,000 SSL VPN users	Cisco ASA 5580-20 SSL/IPsec VPN Edition for 10,000 concurrent SSL VPN users (AnyConnect Premium—SSL VPN Edition)	ASA5580-20-10K-K9

Table 3.   Ordering Information for Individual (Single Device) Premium Licenses

Cisco ASA Chassis and Applicable SSL VPN Licenses								
SSL VPN User Requirements	Part Number	Cisco ASA 5505	Cisco ASA 5510	Cisco ASA 5520	Cisco ASA 5540	Cisco ASA 5550	Cisco ASA 5580-20	Cisco ASA 5580-40
10 SSL VPN users	ASA5500-SSL-10	X	X	X	X	X	X	X
25 SSL VPN users	ASA5500-SSL-25	X	X	X	X	X	X	X
50 SSL VPN users	ASA5500-SSL-50	–	X	X	X	X	X	X
100 SSL VPN users	ASA5500-SSL-100	–	X	X	X	X	X	X
250 SSL VPN users	ASA5500-SSL-250	–	X	X	X	X	X	X
500 SSL VPN users	ASA5500-SSL-500	–	–	X	X	X	X	X
750 SSL VPN users	ASA5500-SSL-750	–	–	X	X	X	X	X
1000 SSL VPN users	ASA5500-SSL-1000	–	–	–	X	X	X	X
2500 SSL VPN users	ASA5500-SSL-2500	–	–	–	X	X	X	X
5000 SSL VPN users	ASA5500-SSL-5000	–	–	–	–	X	X	X
10,000 SSL VPN users	ASA5500-SSL-10K	–	–	–	–	–	X	X

Table 4.   Ordering information for AnyConnect Premium—SSL VPN Edition Shared Licenses (Shared License Server)

SSL VPN User Requirements	AnyConnect Premium—SSL VPN Edition Shared Licenses	Part Number
500 SSL VPN users	Premium Shared VPN Server License—500 shared seats (AnyConnect Premium—SSL VPN Edition)	ASA-VPNS-500=
1000 SSL VPN users	Premium Shared VPN Server License—1,000 shared seats (AnyConnect Premium—SSL VPN Edition)	ASA-VPNS-1000=
2,500 SSL VPN users	Premium Shared VPN Server License—2,500 shared seats (AnyConnect Premium—SSL VPN Edition)	ASA-VPNS-2500=
5,000 SSL VPN users	Premium Shared VPN Server License—5,000 shared seats (AnyConnect Premium—SSL VPN Edition)	ASA-VPNS-5000=

SSL VPN User Requirements	AnyConnect Premium—SSL VPN Edition Shared Licenses	Part Number
7,500 SSL VPN users	Premium Shared VPN Server License—7,500 shared seats (AnyConnect Premium—SSL VPN Edition)	ASA-VPNS-7500=
10,000 SSL VPN users	Premium Shared VPN Server License—10,000 shared seats (AnyConnect Premium—SSL VPN Edition)	ASA-VPNS-10K=
20,000 SSL VPN users	Premium Shared VPN Server License—20,000 shared seats (AnyConnect Premium—SSL VPN Edition)	ASA-VPNS-20K=
30,000 SSL VPN users	Premium Shared VPN Server License—30,000 shared seats (AnyConnect Premium—SSL VPN Edition)	ASA-VPNS-30K=
40,000 SSL VPN users	Premium Shared VPN Server License—40,000 shared seats (AnyConnect Premium—SSL VPN Edition)	ASA-VPNS-40K=
50,000 SSL VPN users	Premium Shared VPN Server License—50,000 shared seats (AnyConnect Premium—SSL VPN Edition)	ASA-VPNS-50K=
100,000 SSL VPN users	Premium Shared VPN Server License—100,000 shared seats (AnyConnect Premium—SSL VPN Edition)	ASA-VPNS-100K=

Table 5.   Ordering Information for AnyConnect Premium—SSL VPN Edition Shared Licenses (Participant)

SSL VPN User Requirements	Premium VPN Bundles	Edition Bundle Part Number
ASA 5510 **(250 simultaneous)**	Premium Shared VPN Participant License—ASA 5510 (AnyConnect Premium—SSL VPN Edition)	ASA-VPNP-5510=
ASA 5520 **(750 simultaneous)**	Premium Shared VPN Participant License—ASA 5520 (AnyConnect Premium—SSL VPN Edition)	ASA-VPNP-5520=
ASA 5540 **(2500 simultaneous)**	Premium Shared VPN Participant License—ASA 5540 (AnyConnect Premium—SSL VPN Edition)	ASA-VPNP-5540=
ASA 5550 **(5000 simultaneous)**	Premium Shared VPN Participant License—ASA 5550 (AnyConnect Premium—SSL VPN Edition)	ASA-VPNP-5550=
ASA 5580 **(10,000 simultaneous)**	Premium Shared VPN Participant License—ASA 5580 (AnyConnect Premium—SSL VPN Edition)	ASA-VPNP-5580=

Table 6.   Ordering Information for AnyConnect Essentials Spares (Requires Cisco ASA Software Release 8.2 and Later)

AnyConnect Essentials Platform / Users	AnyConnect Essentials VPN Spares	Part Numbers
ASA 5505 **(25 simultaneous)**	AnyConnect Essentials VPN license—25 concurrent AnyConnect VPN Essentials users	ASA-AC-E-5505=
ASA 5510 **(250 simultaneous)**	AnyConnect Essentials VPN license—250 concurrent AnyConnect VPN Essentials users	ASA-AC-E-5510=
ASA 5520 **(750 simultaneous)**	AnyConnect Essentials VPN license—750 concurrent AnyConnect VPN Essentials users	ASA-AC-E-5520=
ASA 5540 **(2500 simultaneous)**	AnyConnect Essentials VPN license—2,500 concurrent AnyConnect VPN Essentials users	ASA-AC-E-5540=
ASA 5550 **(5000 simultaneous)**	AnyConnect Essentials VPN license—5,000 concurrent AnyConnect VPN Essentials users	ASA-AC-E-5550=
ASA 5580 **(10,000 simultaneous)**	AnyConnect Essentials VPN license—10,000 concurrent AnyConnect VPN Essentials users	ASA-AC-E-5580=

Electronic License Delivery (eDelivery)

Most licenses are available for electronic delivery, which significantly speeds up license fulfillment time. To order a license electronically, be sure to choose to order part number(s) that begin with "L."

Cisco Services

Cisco and its partners provide services that can help you deploy and manage security solutions. Cisco has adopted a lifecycle approach to services that addresses the necessary set of requirements for deploying and operating Cisco adaptive security appliances, as well as other Cisco security technologies. This approach can help you improve your network security posture to achieve a more available and reliable network, prepare for new applications, lower your network costs, and maintain network health through day-to-day operations. For more information about Cisco Security Services, visit http://www.cisco.com/go/services/security.

For More Information

For more information, please visit the following links:

- Cisco ASA 5500 Series: http://www.cisco.com/go/asa
- Cisco Secure Remote Access: VPN Licensing Overview information. http://www.cisco.com/en/US/products/ps6120/products_licensing_information_listing.html
- Cisco AnyConnect VPN Client: http://www.cisco.com/en/US/prod/collateral/vpndevc/ps6032/ps6094/ps6120/data_sheet_c78-527494.html
- Cisco Adaptive Security Device Manager: http://www.cisco.com/go/asdm
- Cisco Product Certifications: http://www.cisco.com/go/securitycert
- Cisco Security Services: http://www.cisco.com/en/US/products/svcs/ps2961/ps2952/serv_group_home.html

Acknowledgement

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)