Cisco ASA 5500 Series IPS Solution

Product Overview

Comprising marketing-leading firewall, VPN, and hardware-accelerated IPS, the Cisco® ASA 5500 IPS Solution is critical to helping organizations meet compliance mandates and secure their critical assets and networks. Cisco Advanced Inspection and Prevention Security Services Modules and Security Services Cards (AIP SSMs and AIP SSCs) enhance firewall protection by looking deeper into the packets to provide real-time IPv4 and IPv6 protection against worms, Trojans, and exploits against application and OS vulnerabilities. A key component of the Cisco Secure Borderless Network architecture, the Cisco ASA 5500 Series IPS Solution is intuitive, powerful, and secure–providing superior real-time protection for your critical information assets using innovative IPS with Global Correlation, firewall, and VPN technology.

- **Intuitive:** Easy-to-use management interfaces helps save you time and training costs.
- **Powerful:** Market-leading firewall, VPN, and hardware-accelerated IPS in a single, easy-to-deploy platform provide maximum protection and performance.
- **Secure:** Real-time, accurate threat protection with Global Correlation for IPS.

In addition to providing powerful security protection, the Cisco ASA 5500 Series IPS Solution helps organizations meet compliance mandates, whether it is the Payment Card Industry (PCI) standard for retail, the Health Insurance Portability and Accountability Act (HIPAA) for healthcare, or the Federal Financial Institutions Examination Council (FFIEC) for banking.

Figure 1. Cisco ASA 5500 Series IPS Solution with Cisco AIP SSMs and IPS SSPs.

Key Features and Benefits

- **High performance:** IPS capabilities are hardware-accelerated to provide maximum performance, and do not negatively affect firewall or VPN throughput.
- **Full IPS protection:** The Cisco ASA 5500 Series IPS Solution offers full IPS protection. It supports the same intrusion prevention software found in Cisco IPS 4200 Series Sensors.

- **Global Correlation:** Part of Cisco IPS Sensor Software 7.0, IPS with Global Correlation provides real-time updates on the global threat environment beyond the perimeter, enabling your sensors to detect more threats, detect them earlier and more accurately, and protect critical assets from malicious attacks. With global correlation, your security definitions are updated every 15 minutes, so you always have the most current protection available.
- **Reputation technology:** Using market-leading reputation technology backed by Cisco Global Correlation, you are proactively protected from known malicious users who attempt to gain access to your critical assets.
- **Comprehensive and timely attack protection:** Through signature updates provided by a global security intelligence team working 24 hours a day, your critical assets and services are secured.
- **Zero-day attack protection:** Cisco anomaly detection provides powerful protection against day-zero attacks. It learns the normal behavior on your network and alerts you when it sees anomalous activities in your network. Thus, you are protected against new threats even before signatures are available.
- **Wireless protection:** Tight integration between the Cisco ASA 5500 Series IPS solution and the Cisco Wireless LAN Controller helps ensure that intruders do not enter your wireless network.
- **Unified Communications protection:** Strong protection of voice-over-IP (VoIP) protocols, Cisco Unified CallManager, and devices provides maximum uptime of your critical voice network.
- **Advanced policy provisioning with Modular Policy Framework:** The Cisco Modular Policy Framework provides a powerful mechanism to assign Cisco ASA firewall, VPN, and IPS policies in one place. With the Cisco Modular Policy Framework, the Cisco ASA firewall passes traffic to the AIP SSM for inspection on a flow-by-flow, as-needed basis for simplified management.
- **Cisco IPS policy provisioning:** With Risk Rating–based IPS policy provisioning, you assign IPS policies based on risk, instead of tuning individual signatures. All events are assigned a Risk Rating number between 0 and 100 based on the risk level of the event. Based on the Risk Rating, different policy actions can be assigned, including drop packet, alarm, and log.

- **Cisco IPS Manager Express:** Cisco IPS Manager Express is a powerful yet easy-to-use all-in-one IPS management application for as many as ten IPS sensors. With built-in provisioning, monitoring, troubleshooting, and reporting capabilities, Cisco IPS Manager Express simplifies IPS deployment and management.

Figure 2. Cisco IPS Manager Express

Meeting Customer Needs

The Cisco ASA 5500 Series IPS solution meets the needs of a broad set of customers, including:

- Customers wanting to meet IPv6 or compliance mandates, including PCI, HIPAA, and FFIEC
- Existing Cisco ASA customers looking to enhance their security with intrusion prevention
- Existing Cisco PIX® customers migrating to Cisco ASA 5500 Series
- Customers that require their security solution to scale as they grow
- Customers requiring solid security protection without security or performance compromises
- Customers needing to secure their wireless or unified communications network now or in the future
- Customers wanting Cisco innovation and peace of mind

Competitive Review

Competitor	Cisco Differentiator
Sonicwall, Juniper, Fortinet, Watchguard	• Global Correlation for IPS provides threat updates every 15 minutes—100 times faster than signatureonly IPS. • With twice the efficacy and the most comprehensive threat coverage of legacy IPS, Cisco IPS with Global Correlation provides the fastest and most accurate threat protection with global intelligence from Cisco IPS, firewall, email, and web appliances. • Global visibility to emerging threats and the attackers behind them. • High IPS performance with hardware-accelerated IPS—turning on IPS does not negatively affect firewall or VPN throughput. • Full spectrum intrusion protection with comprehensive IPS capabilities. • Zero-day protection with Cisco anomaly detection. • Advanced unified communications protection for secure VoIP deployments. • Tight integration with Cisco Wireless LAN Controller for secure wireless deployments. • Easy-to-use all-in-one management application Cisco IPS Manager Express provides integrated provisioning, monitoring, troubleshooting, and reporting.

Part Numbers and Performance

Part Number	Firewall Performance	IPS Performance
ASA5505-50-AIP5-K9	150 Mbps	75 Mbps
ASA5505-U-AIP5P-K9	150 Mbps	75 Mbps
ASA5510-AIP10-K9	300 Mbps	150 Mbps
ASA5510-AIP20-K9	300 Mbps	300 Mbps
ASA5520-AIP10-K9	450 Mbps	225 Mbps
ASA5520-AIP20-K9	450 Mbps	375 Mbps
ASA5520-AIP40-K9	450 Mbps	450 Mbps
ASA5540-AIP20-K9	650 Mbps	500 Mbps
ASA5540-AIP40-K9	650 Mbps	650 Mbps
ASA 5585-X- SSP-10	2 Gbps	2 Gbps
ASA 5585-X- SSP-20	5 Gbps	3 Gbps
ASA 5585-X- SSP-40	10 Gbps	5 Gbps
ASA 5585-X- SSP-60	20 Gbps	10 Gbps

Product Availability

Shipping worldwide, no restrictions.

Programs and Promotions

- Cisco Value Incentive Program
- Cisco Competitive Trade-in-Program
- Cisco Trade-in-Program
- Cisco Opportunity Incentive Program

For More Information

For more information, contact your Cisco account team or visit:
http://www.cisco.com/go/asaips.