

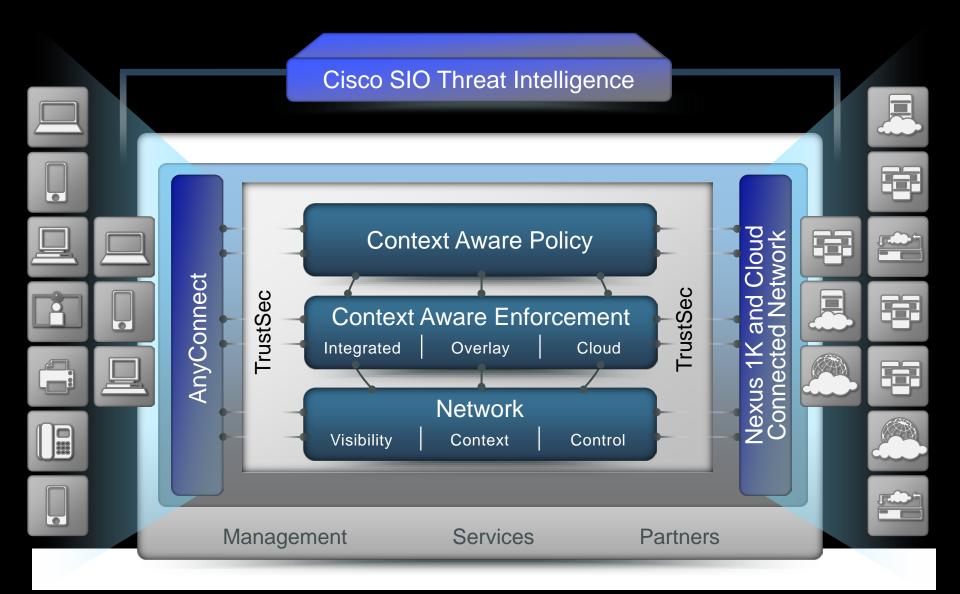
Firewall and IPS

Abdullah Ahmed
Regional Security Consultant

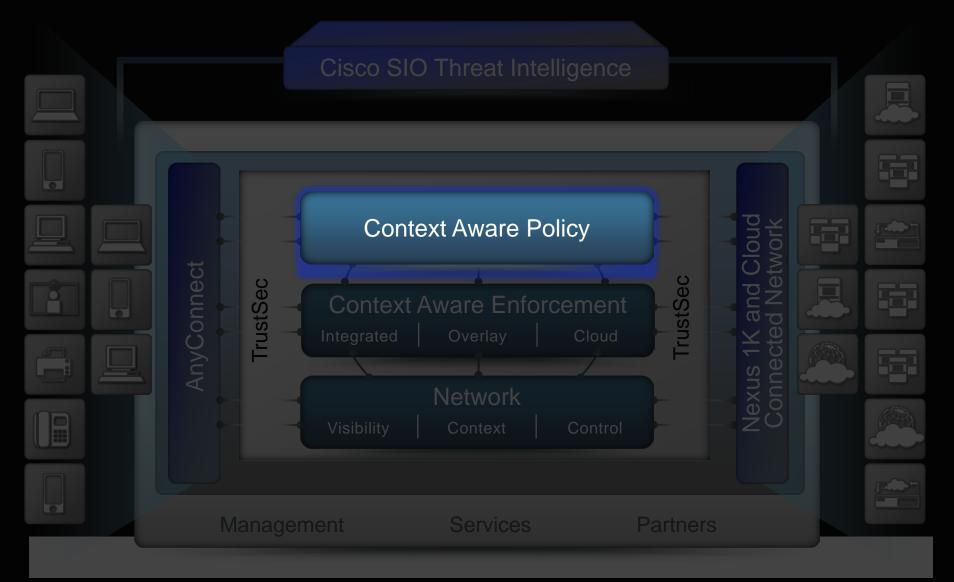
Cisco Systems

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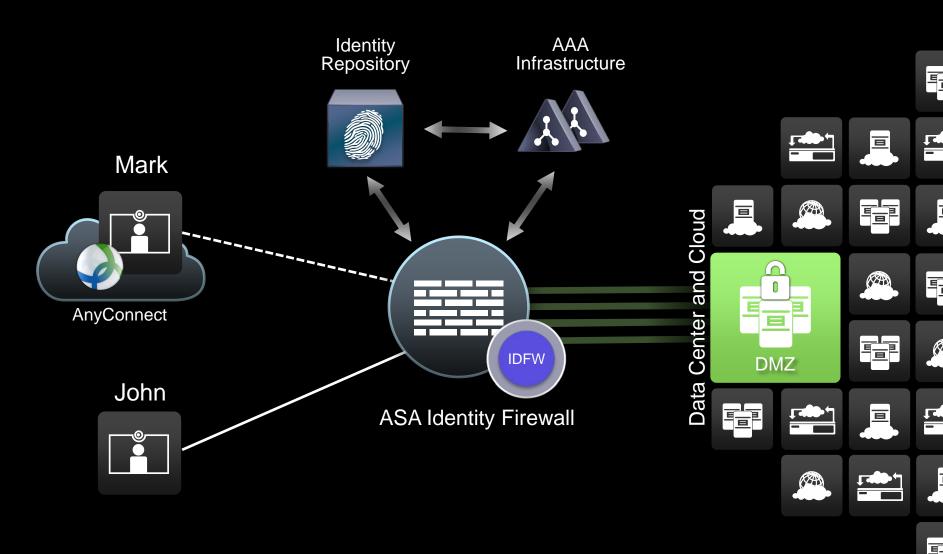
Cisco SecureX Architecture



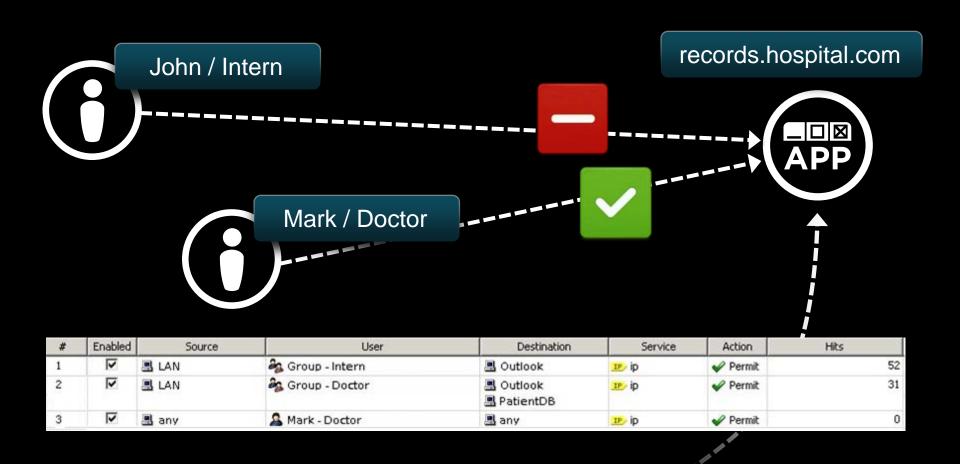
Cisco SecureX Architecture



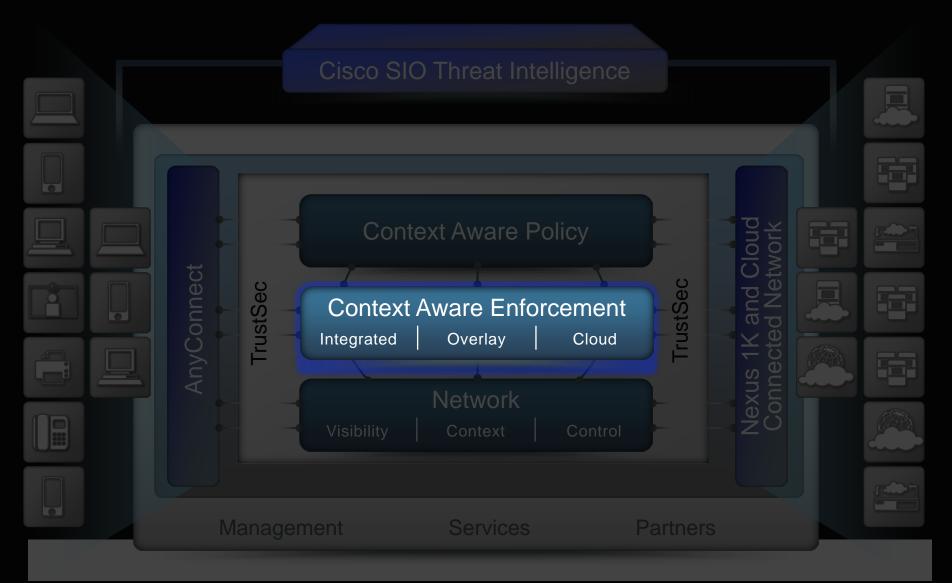
Context Aware Policy



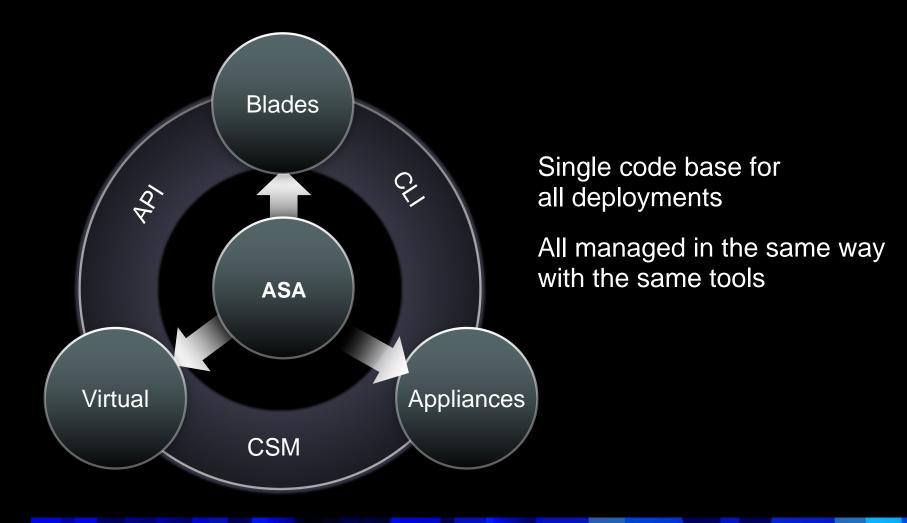
Context Aware Policy in Action



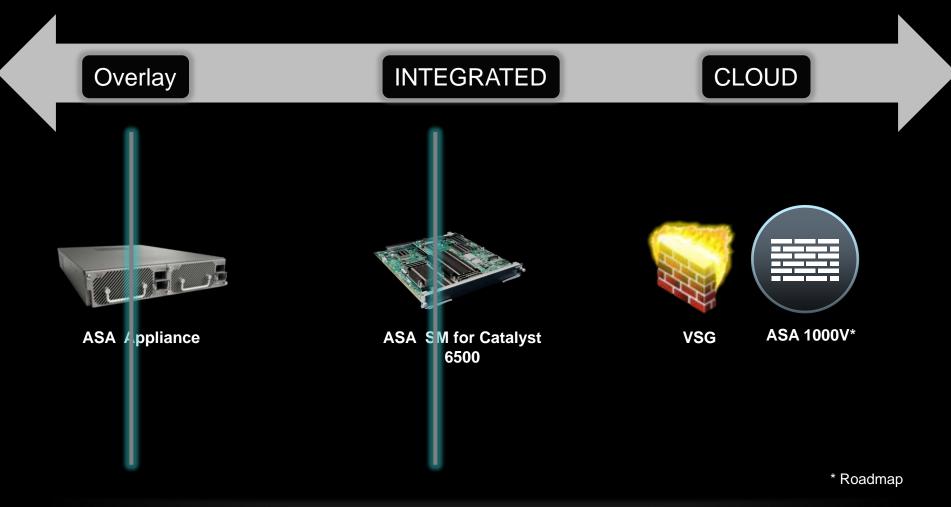
Cisco SecureX Architecture



Context Aware Enforcement



Securing Across The Fabric



Cisco SecureX Architecture















TOP News of the day:

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Order History



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New Products



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Sales Metrics



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TOP News of the day:

Order History



New Products



Sales Metrics

Home Bookmark Contact













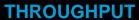


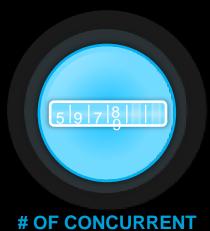












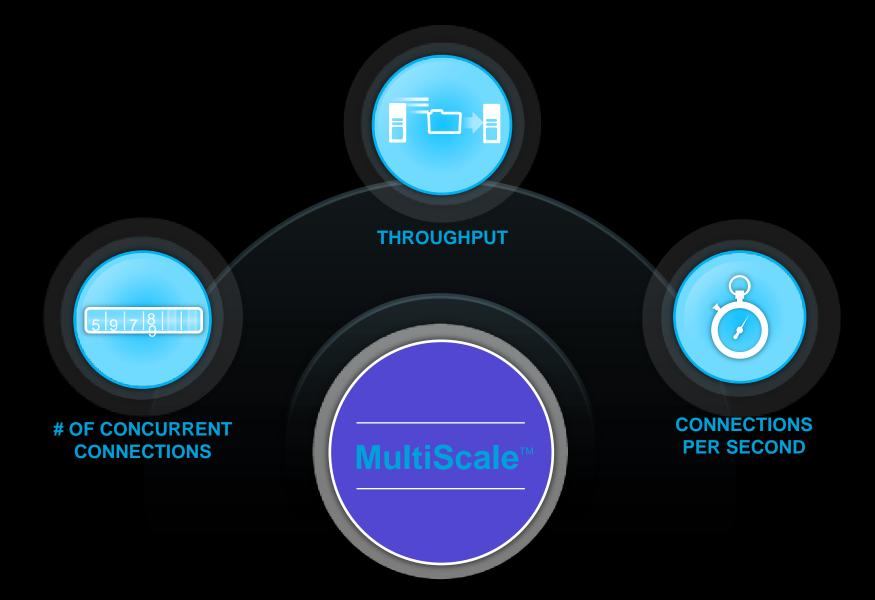
CONNECTIONS





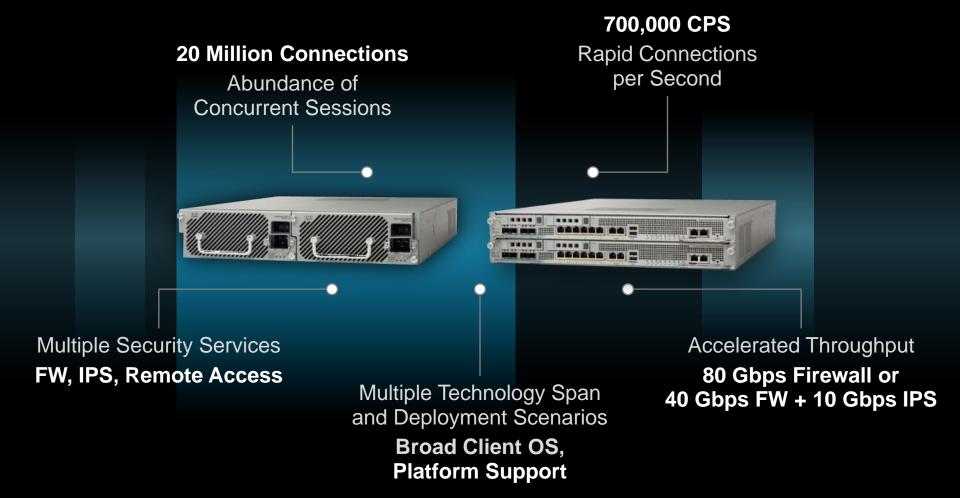
CONNECTIONS PER SECOND

Power & Space



14

ASA 5585-X MultiScale™ Performance



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Cisco ASA SM For Catalyst 6500

- Cisco ASA 5585-X as Blade
- Cisco ASA security blade for the Catalyst 6500
- Places security directly into the datacenter backbone
- Simplified installation and greater flexibility



Introducing the High Performance, Multi-Service ASA 5585-X

Marketing Leading Firewall, IPS and VPN Services

MultiScale[™] Performance

- Provides up to 35 Gbps of firewall throughput
- Extends firewall and IPS throughput to 10 Gbps
- Scales up to 10,000 users of remote access VPN

Investment Protection

Scalable chassis that grows with your business

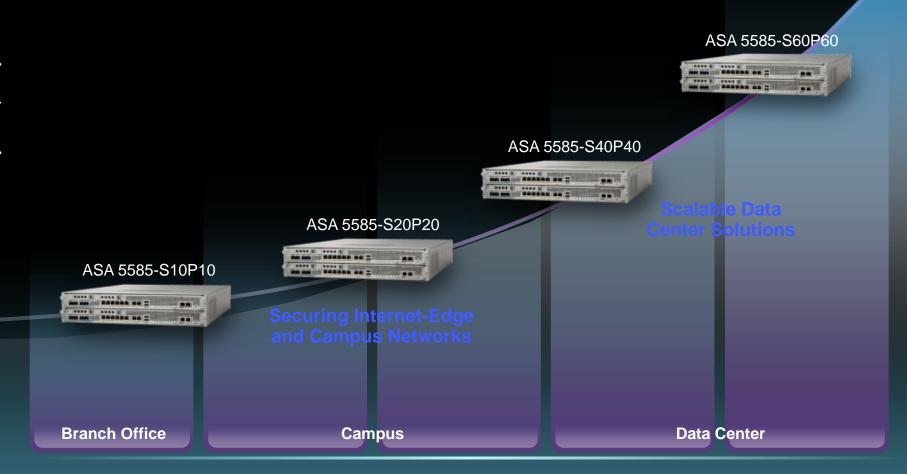
Industry-Leading Multi-Service Security

- Advanced threat protection with Botnet Traffic Filtering and hardware-accelerated IPS with Global Correlation
- Leading-edge remote access with Cisco AnyConnect[™]
- Built upon 15 years of security innovation



Raising the Bar for Firewall, IPS, and VPN Capabilities

Cisco ASA 5585-X Appliance Portfolio



Enhancing the Customer Experience

Platform Choices

(40 Gbps, 350K cps) ASA 5585 SSP-40 (20 Gbps, 240K cps) ASA 5585 SSP-20 **Multi-Service** (10 Gbps, 140K cps) (Firewall/VPN and IPS) ASA 5585 SSP-10 (4 Gbps, 65K cps) **ASA 5550** (1.2 Gbps, 36K cps) ASA 5540 (650 Mbps, 25K cps) ASA SM (16 Gbps, 300K cps) ASA 5520 (450 Mbps, 12K cps) ASA 5510 (300 Mbps,9K cps) ASA 5505 (150 Mbps, 4K cps) - THE STATE OF SOHO **Branch Office Internet Edge Data Center Campus**

ASA 5585 SSP-60



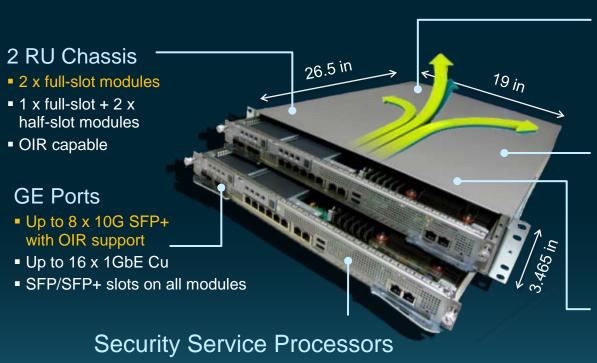
Cisco ASA 5500 Series High-End Lineup Solutions



| Network Location | Internet Edge/ Campus ASA 5585 SSP-10 | Internet Edge/ Campus ASA 5585 SSP-20 | Campus/ Data Center ASA 5585 SSP-40 | Data Center ASA 5585 SSP-60 |
|--|---|--|--|---|
| Performance Max Firewall Max IPS Max IPSec VPN Max IPSec/SSL VPN Peers | 4 Gbps 2 Gbps 1 Gbps 5000 | 10 Gbps 3 Gbps 2 Gbps 10,000 | 20 Gbps 5 Gbps 3 Gbps 10,000 | 35 Gbps 10 Gbps 5 Gbps 10,000 |
| Platform Capabilities Max Firewall Conns Max Conns/Second Packets/Second (64 byte) Base I/O Max I/O VLANs Supported HA Supported | 750,000 50,000 1,500,000 8 GE + 2 10 GE 16 GE + 4 10 GE 250 A/A and A/S | 1,000,000 125,000 3,000,000 8 GE + 2 10 GE 16 GE + 4 10 GE 250 A/A and A/S | 2,000,000 200,000 5,000,000 6 GE + 4 10GE 12 GE + 8 10GE 250 A/A and A/S | 2,000,000 350,000 9,00,000 6 GE + 4 10GE 12 GE + 8 10GE 250 A/A and A/S |

High Performance Multi-Service Cisco ASA 5585-X Series

Under the Covers



Redundant Hot Swappable Power Supply Units

Front to back air flow

Multi Gigabit Fabric

- Passive backplane
- Module to module communications
- Packet prioritization and shaping

eUSB

- 2 GB internal
- Convenience storage
- Security credentials

Multi-services capable

- Dedicated 64bit multi-core processors
- Future-proof hardware

ASA 5585-X Firewall/VPN Module Hardware Comparison

| | ASA 5585-X | | | | |
|-----------------------|--|--|--|--|--|
| | ASA SSP-10 | ASA SSP-20 | ASA SSP-40 | ASA SSP-60 | |
| Multi Core Processors | Yes | Yes | Yes (Dual CPU) | Yes (Dual CPU) | |
| Maximum Memory | 6 GB | 12 GB | 12 GB | 24 GB | |
| Maximum Storage | 2 GB eUSB | 2 GB eUSB | 2 GB eUSB | 2 GB eUSB | |
| Ports | 2 x SFP+ 8 x 1GbE Cu 2 x 1GbE Cu Mgmt | 2 x SFP+ 8 x 1GbE Cu 2 x 1GbE Cu Mgmt | 4 x SFP+ 6 x 1GbE Cu 2 x 1GbE Cu Mgmt | 4 x SFP+ 6 x 1GbE Cu 2 x 1GbE Cu Mgmt | |
| Crypto Chipset | Yes | Yes | Yes | Yes | |

ASA 5585-X IPS Module Hardware Comparison

| | ASA 5585-X | | | | |
|-----------------|--|--|--|--|--|
| | IPS SSP-10 | IPS SSP-20 | IPS SSP-40 | IPS SSP-60 | |
| Processor | Yes | Yes | Yes (Dual CPU) | Yes (Dual CPU) | |
| Maximum Memory | 6 GB | 12 GB | 24 GB | 48 GB | |
| Maximum Storage | 2 GB eUSB | 2 GB eUSB | 2 GB eUSB | 2 GB eUSB | |
| Ports | 2 x SFP+ 8 x 1GbE Cu 2 x 1GbE Cu Mgmt | 2 x SFP+ 8 x 1GbE Cu 2 x 1GbE Cu Mgmt | 4 x SFP+ 6 x 1GbE Cu 2 x 1GbE Cu Mgmt | 4 x SFP+ 6 x 1GbE Cu 2 x 1GbE Cu Mgmt | |

High Availability

Hardware

- Redundant hotswappable power supplies
- OIR capable SFP/ SFP+ modules

Software

- Firewall A/S and A/A support
- IPS fail-open and fail-close support



Cisco SecureX Architecture



Virtual Security: Evolving Security Concerns

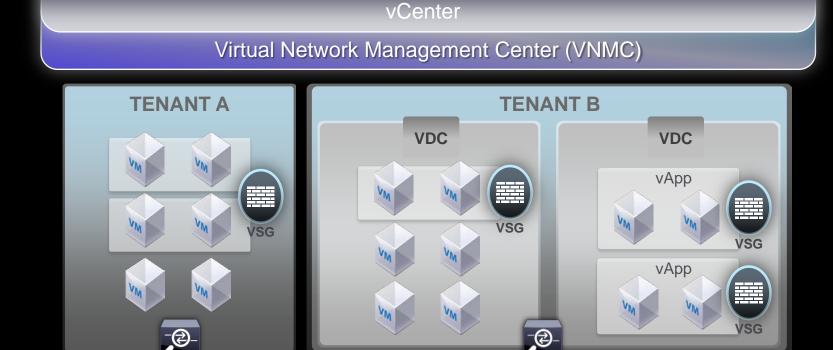
Hybrid security solutions

Feature consistency across physical and virtual security solutions

Single manager across hybrid portfolio (simplicity)

Extend role based management to virtual world

ASA 1000V: Cisco's Cloud Firewall



Hypervisor

Nexus1000V

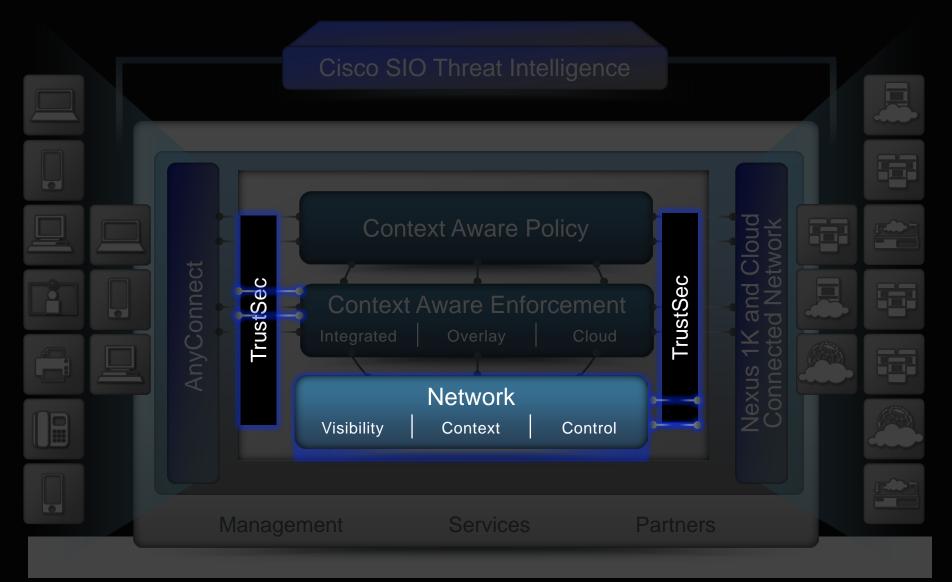
ASA 1000V

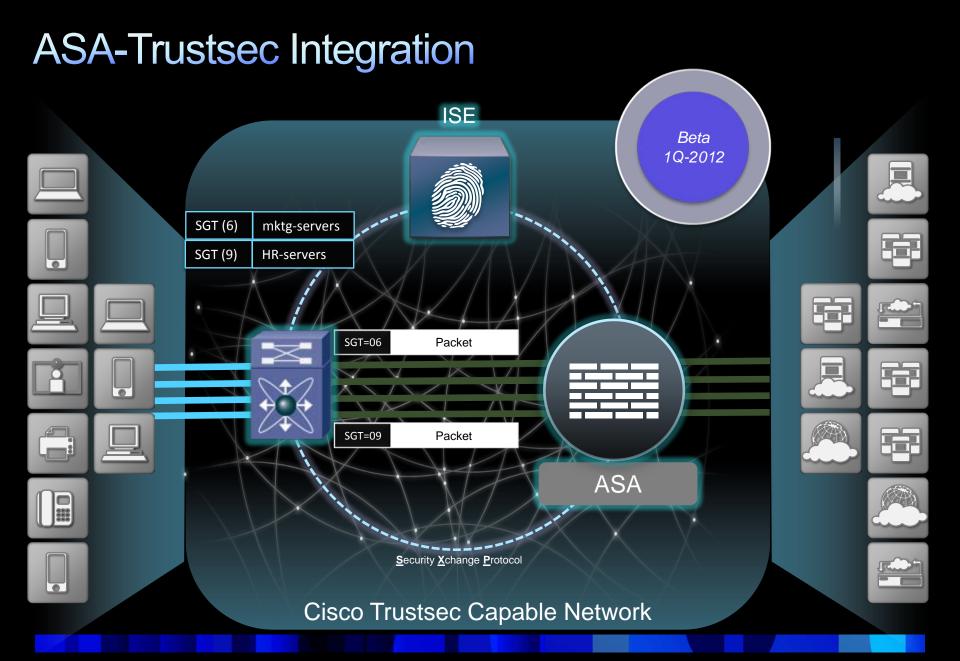
vPath

ASA 1000V

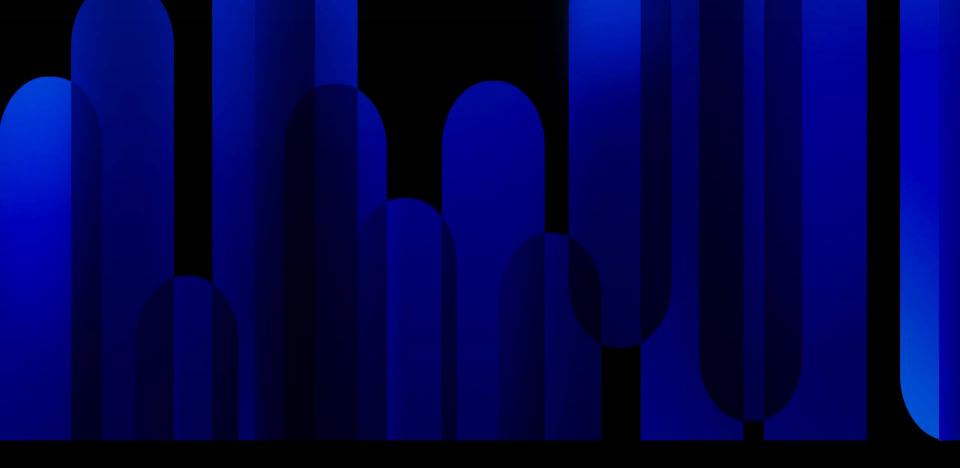
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Cisco SecureX Architecture





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IPS

Why Do Customers Need an IPS?

Compliance Mandates

- PCI Compliance (Retail); HIPAA (Healthcare); Sarbanes-Oxley/GLBA (Finance)
- Fines for noncompliance

Application and Infrastructure Availability

- Minimize risk of security breach
- Minimize downtime due to security breach
- Reduced patch deployment urgency

Data Loss Prevention

- Protection of sensitive or confidential information
- Tarnished reputation from security compromises

Cisco SecureX Architecture



Security Intelligence Operations





SensorBase

Dynamic Updates

4 TB

DATA RECEIVED PER DAY

35%

WORLDWIDE TRAFFIC

\$100M

SPENT IN DYNAMIC RESEARCH AND DEVELOPMENT

Threat Operations Center

500

ENGINEERS, TECHNICIANS AND RESEARCHERS

8M

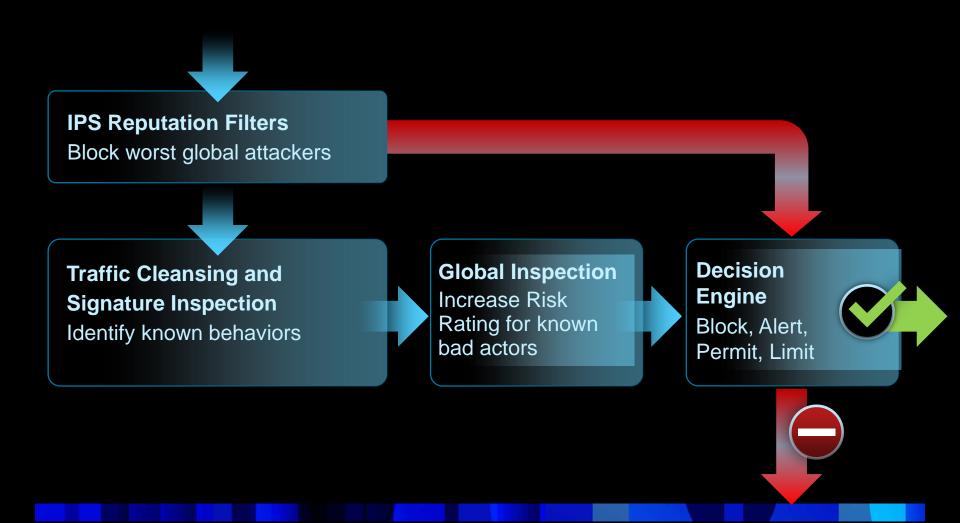
RULE UPDATES

6,500+

SIGNATURES

Cisco IPS Global Correlation

Innovations in Threat Management



Cisco IPS Defense InDepth

Innovations in Threat Management



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Cisco Confidential 35

Comprehensive Security - Guaranteed

Cisco Security

GUARANTEED

Coverage

100% of Cisco Security advisories

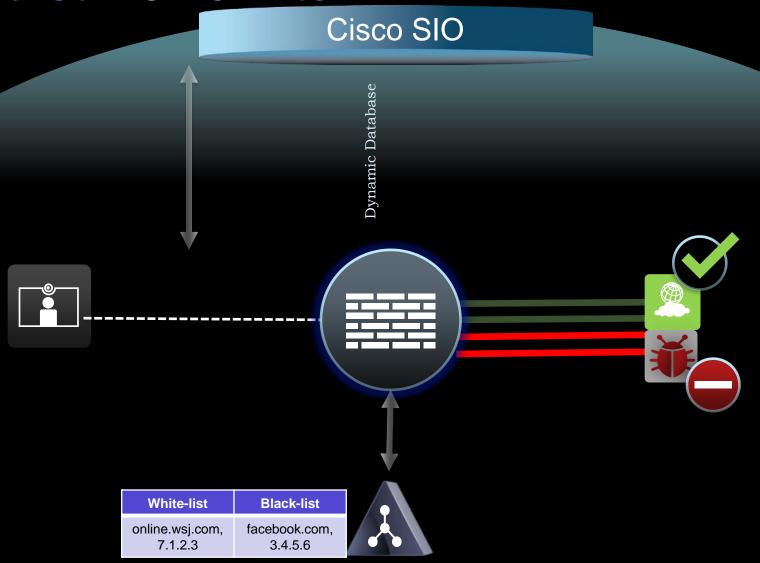
100% of Microsoft Security Bulletins

100% of Critical Enterprise App Vulnerabilities

100% in 24 Hours

90% in 90 Minutes (Cisco, Microsoft)

Botnet Traffic Filter



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