



Cisco FirePower NGFW

Industry's first adaptive, threat-focused next-generation firewall

www.cisco.com/go/asafps

2016



Security

The Security problem



CHANGING BUSINESS MODELS

*Capture benefits of mobility,
cloud and IoE*



DYNAMIC THREAT LANDSCAPE

*Protect against new and
changing attack vectors*



COMPLEXITY AND FRAGMENTATION

*Simplify operations
and reduce costs*

Security

The Strategy – Threat Centric model



Point Technologies does not work in today's Threat Landscape
Cisco addresses the full attack continuum

BEFORE

Policy & Control

Control
Enforce
Harden

DURING

Identification & Block

Detect
Block
Defend

AFTER

Analysis & Remediation

Determine scope
Contain
Remediate

Cisco FirePower



NGNAG Cisco ISE

Web - Cisco WSA

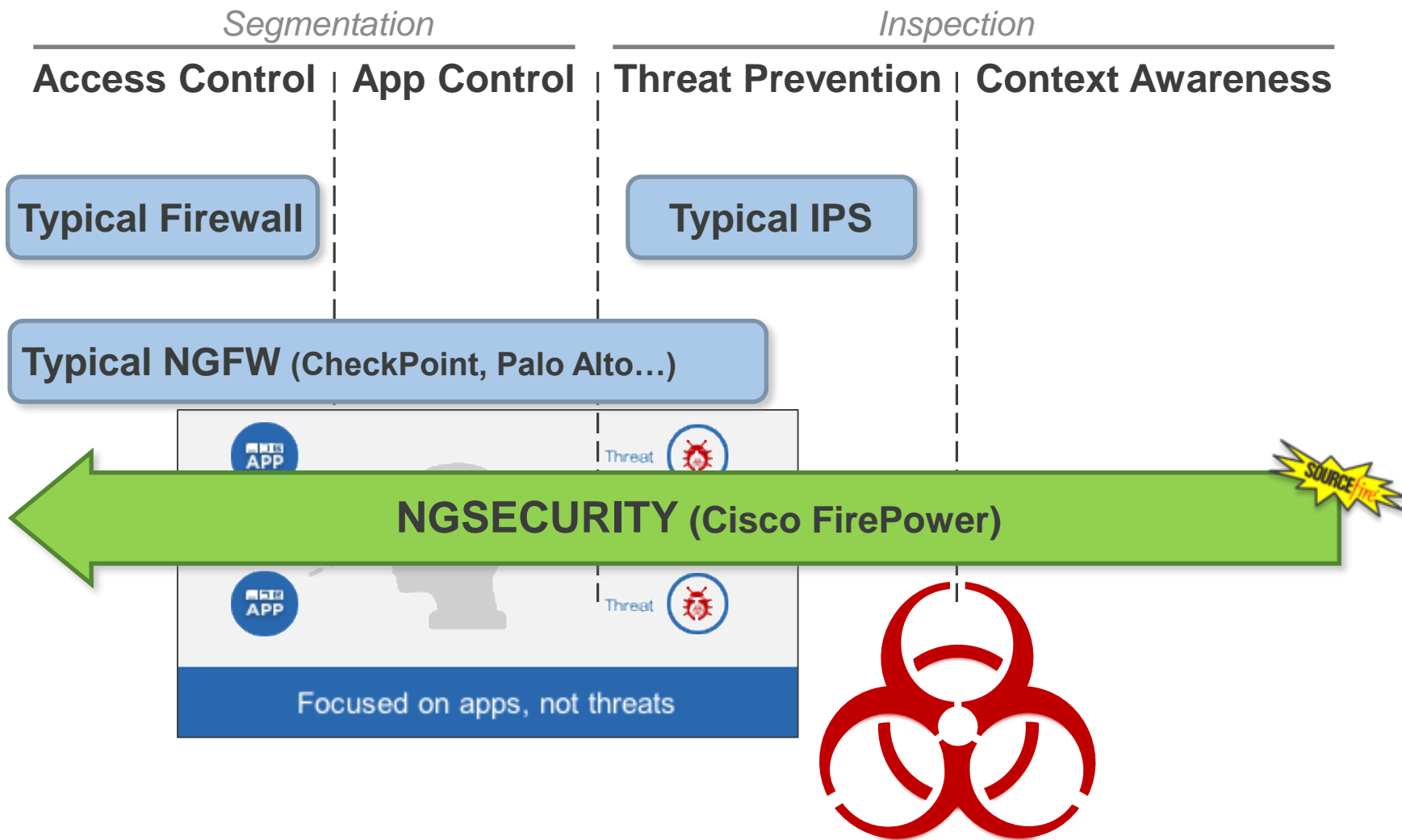
Email - Cisco ESA

Network - Cisco Switches/WiFi/Routers, Open DNS & LANCOPE



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Firewall evolution

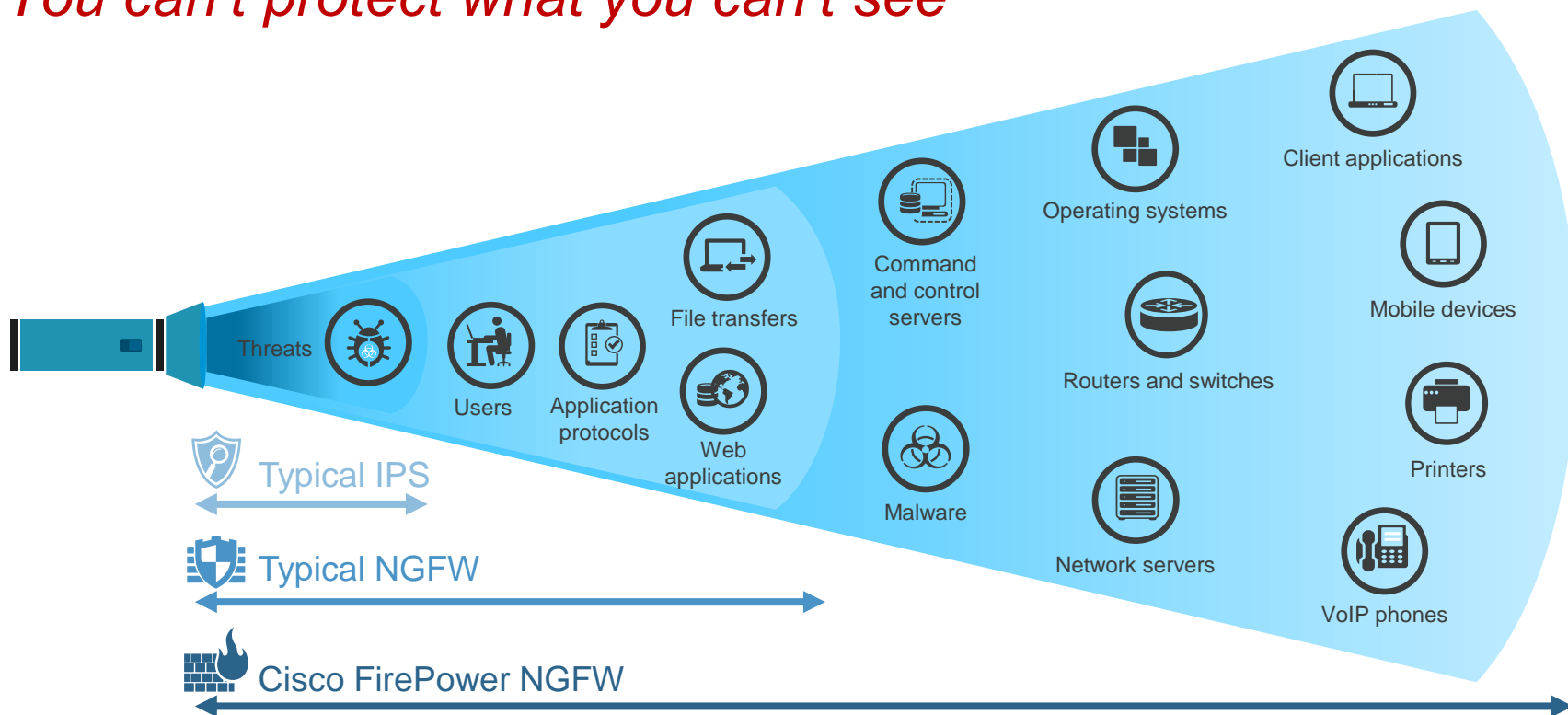


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Firewall evolution – Context Awareness



“You can’t protect what you can’t see”



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Overview



World's most widely deployed enterprise-class ASA stateful firewall
Industry-leading SourceFire FirePOWER Next-Generation Security 



TYPICAL NGFW

Cisco TALOS



Cisco FirePower NGFW

Cisco FirePower MC

Cisco FirePower NGFW

Overview – NextGen Intrusion Prevention (NGIPS)



Cisco TALOS



Cisco FirePower NGFW

Cisco
FirePower MC

Cisco FirePower NGFW

NGIPS – Summary



**World's most Powerful
Intrusion Prevention
Engine**



Automated Tuning
Adjust IPS policies
automatically
based on network change



Impact Assessment
Threat correlation reduces
actionable events by up to
90%

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NGIPS – Impact Assessment



- **Intrusion event**
- **Does not exists**
No Host / IP
- **Service does not exists**
- **Not Vulnerable**
- **Vulnerable**
Needs action

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Overview – Advanced Malware Protection (AMP)



Cisco TALOS



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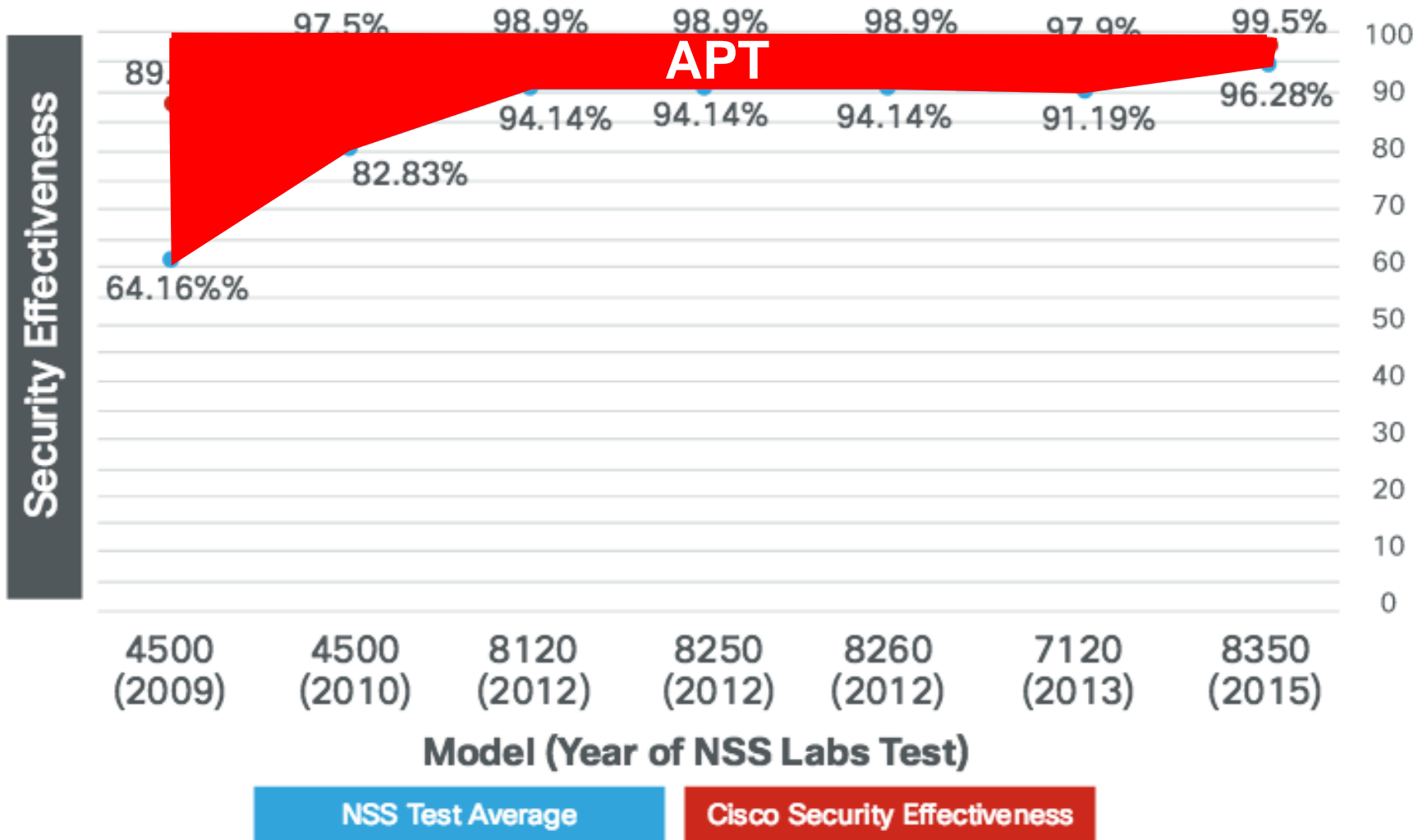
Cisco FirePower MC

Cisco FirePower NGFW

AMP – Overview



Cisco NGIPS Security Effectiveness: 2009-2015



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AMP – Market Overview



Network Based

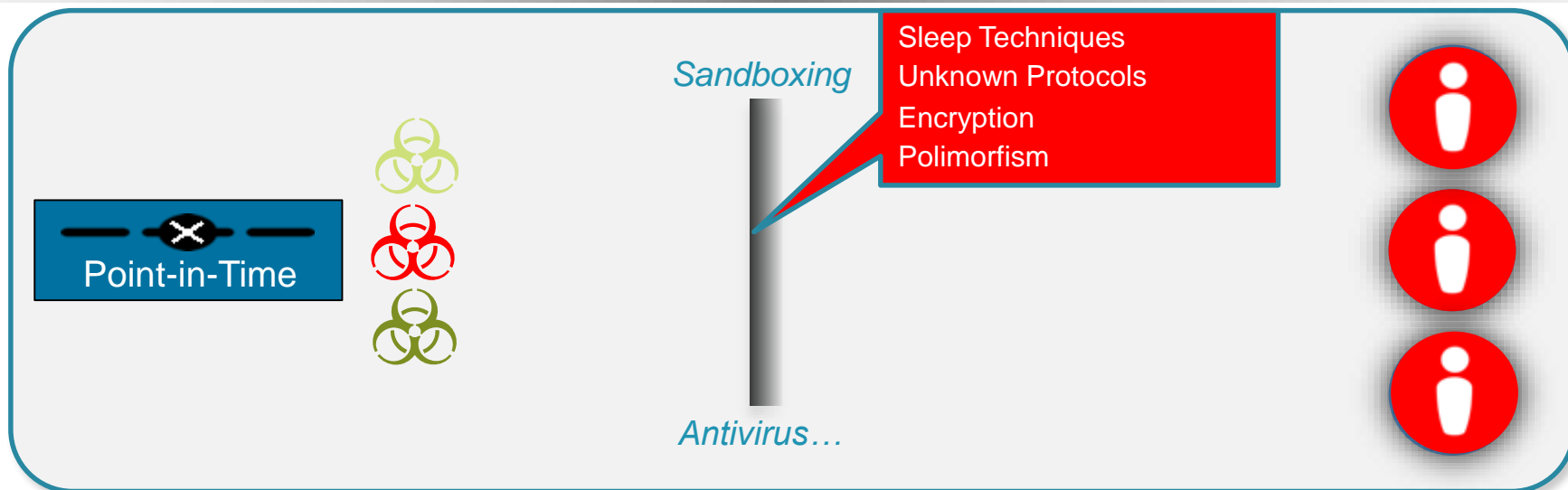


Host Based



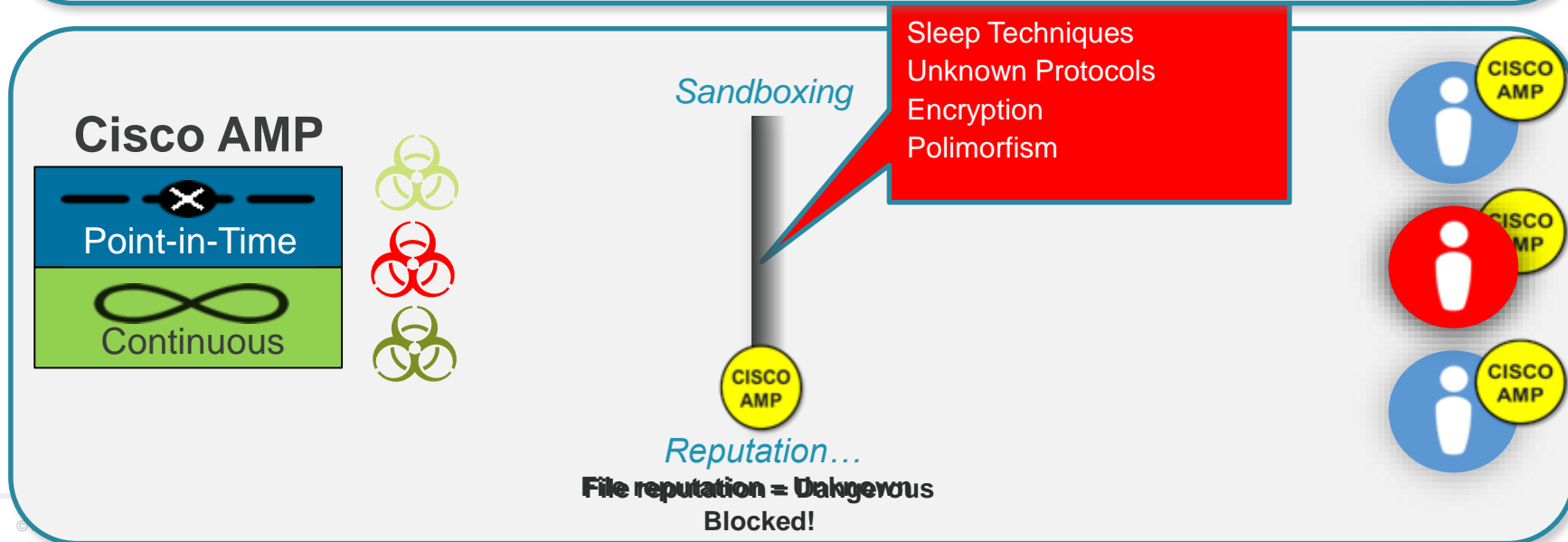
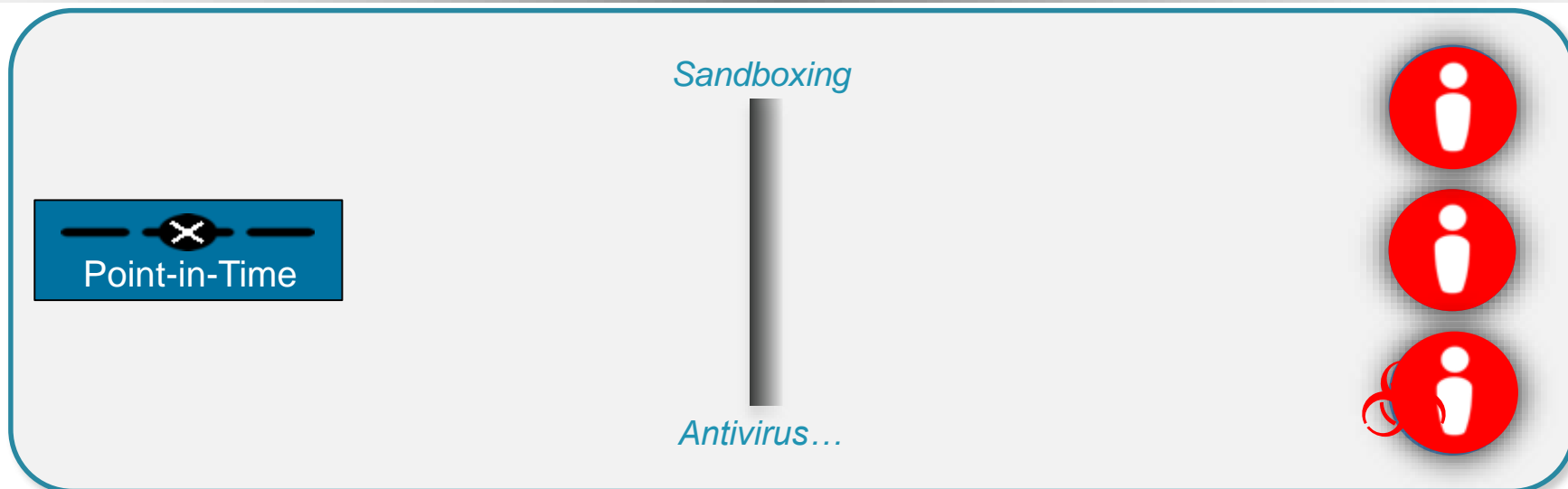
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AMP – Overview



Cisco FirePower NGFW

AMP – Overview



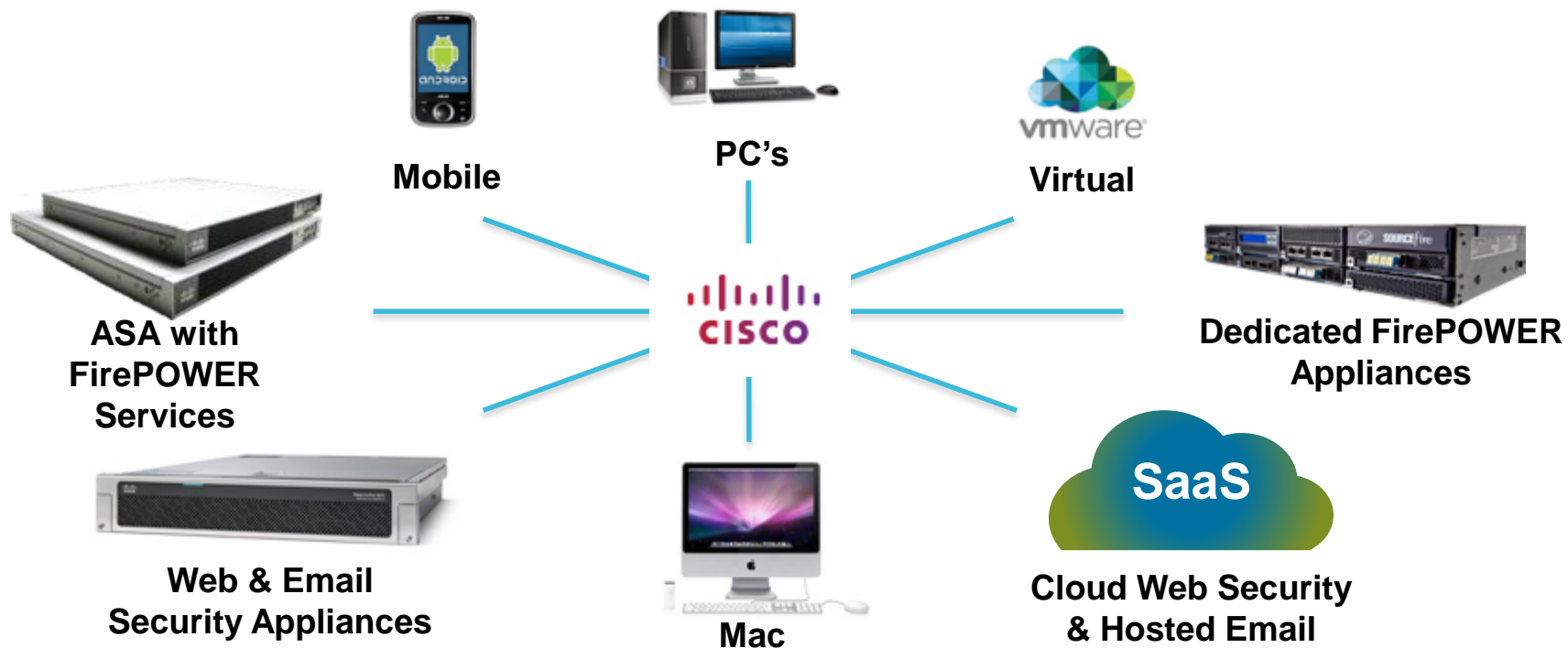


Looks **ACROSS** the organization and answers:

- When did it happen?
- Where is patient 0?
- What systems were infected?
- What was the entry point?
- What else did it bring in?

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AMP – AMP Everywhere

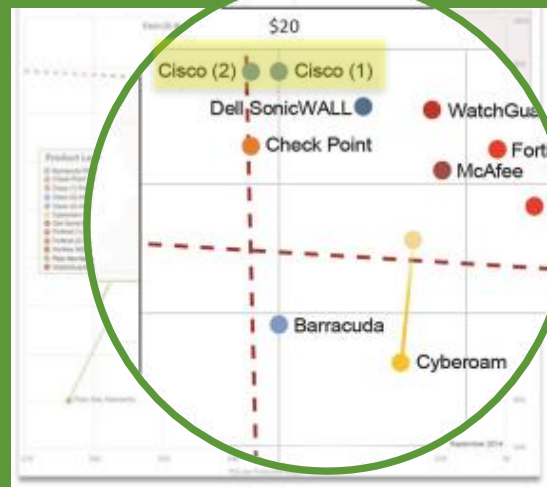


Cisco FirePower NGFW

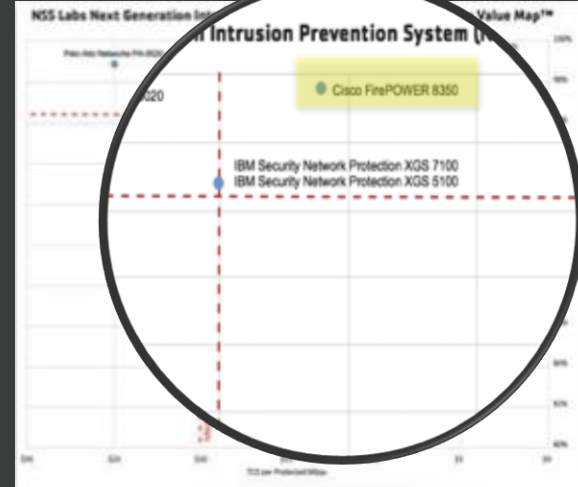
Third Party Validation

Cisco FirePower NGFW

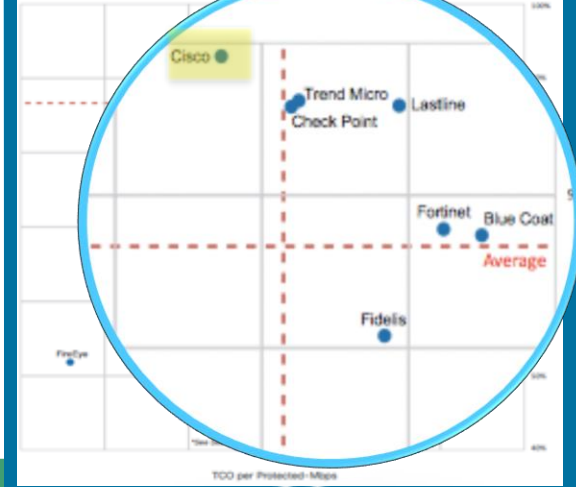
NSS Labs Security Value Map for
Next-Generation Firewall
(NGFW)
2014



NSS Labs Security Value Map for
Intrusion Prevention System
(IPS)
2015



NSS Labs Security Value Map for
Breach Detection
(AMP)
2015



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Platform Overview – Low/Mid range sizing ASA/FirePower

	Cisco ASA5506X 	Cisco ASA5508X 	Cisco ASA5512X 	Cisco ASA5515X 	Cisco ASA5516X 	Cisco ASA5525X 	Cisco ASA5545X 	Cisco ASA5555X 
Performance								
Max Stateful Firewall	750Mbps	1Gbps	1Gbps	1.2Gbps	1.8Gbps	2Gbps	3Gbps	4Gbps
Max AVC	200Mbps	450Mbps	300Mbps	500Mbps	850Mbps	1,1Gbps	1,5Gbps	1,75Gbps
Max AVC+NGIPS	125Mbps	250Mbps	150Mbps	250Mbps	450Mbps	650Mbps	1Gbps	1,25Gbps
Max IPSec VPN	100Mbps	175Mbps	200Mbps	250Mbps	250Mbps	300Mbps	400Mbps	600Mbps
Max IPSec/SSL VPN Peers	50	50	250	250	150	750	2500	5000
Capabilities								
Max Firewall Conns	50K	100K	100K	250K	250K	500K	750K	1M
Max Conns/Second	5K	10K	10K	15K	20K	20K	30K	50K
VLANs Supported	30	50	100	100	100	200	300	500
Virtual Firewalls	-	-	2-5	2-20	2-20	2-50	2-100	2-250
HA Supported	A/S	A/A & A/S	A/A & A/S	A/A & A/S	A/A & A/S	A/A & A/S	A/A & A/S	A/A & A/S

Cisco FirePower NGFW

Platform Overview – High range sizing ASA/FirePower

	Cisco ASA SM For Cat6500 	Cisco ASA 5585X 	Cisco FirePower 4100 NEW! 	Cisco FirePower 9300 NEW! 
Performance				
Max Stateful Firewall	20Gbps	4-40Gbps	20-60Gbps ¹	75-225Gbps ¹
Max AVC	-	4,5-15Gbps	12-25Gbps ²	25-100Gbps ²
Max AVC+NGIPS	-	2-10Gbps	10-20Gbps ²	20-90Gbps ²
Max IPSec VPN	-	1-5Gbps	8-14Gbps ¹	15-54Gbps ¹
Max IPSec/SSL VPN Peers	-	5K-10K	10K-20K ¹	15K-60K ¹
Capabilities				
Max Firewall Conns	10M	0,5M-4M	10M-25M ¹	55M-70M ¹
Max Conns/Second	300K	50K-350K	150K-350K ¹	600K-2.5M ¹
VLANs Supported	1000	1024	1024	1024
Virtual Firewalls	2-250	2-250	2-250 ¹	2-250 ¹
HA Supported	A/A & A/S	A/A & A/S	A/A & A/S	A/A & A/S

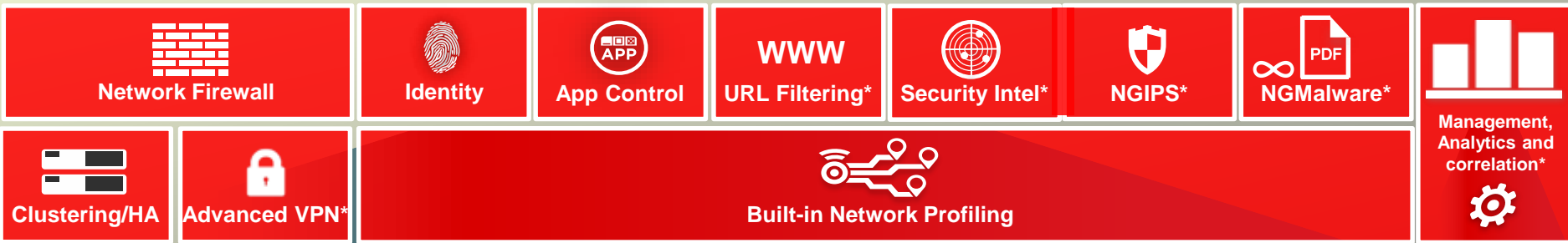
¹ ASA Code

² FirePower Threat Defense Code

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Platform Overview - Licensing

Cisco TALOS



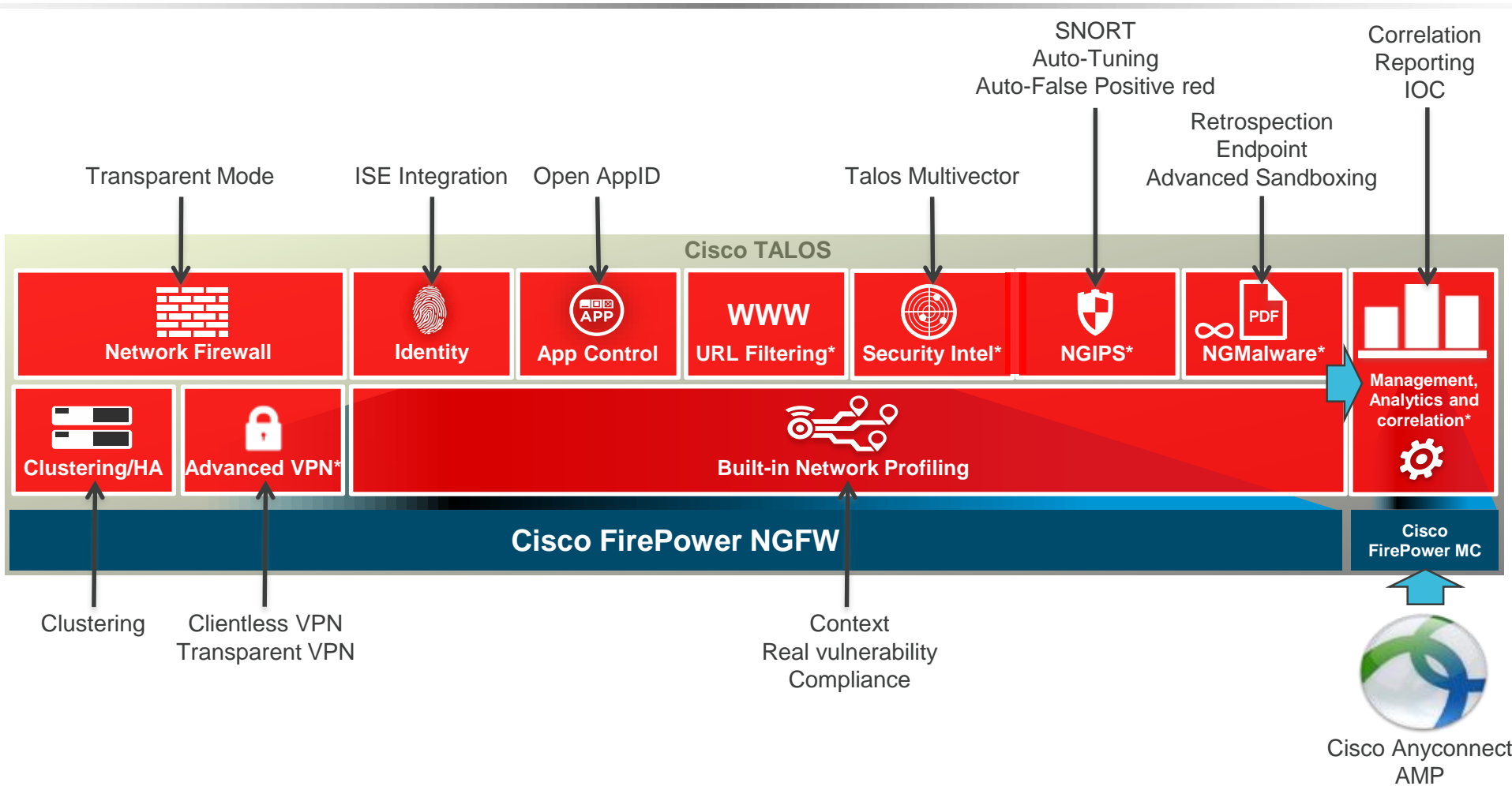
Cisco FirePower NGFW

Cisco
FirePower MC

* License required

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Platform Overview - Advantages



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Cisco Anyconnect



Simple & secure
access anywhere on
any device



Market Leader
over 130M licenses
endpoints & 60,000
customers

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Platform Overview - Upgrade

FirePOWER Services
for 5500-X* (Software)



ASA5500X-SSD120=

FirePOWER Services for
5585-X (Blade)



ASA-SSP-SFRxx-K9=

* ASA-5512X, ASA-5515X, ASA-5525X, ASA-5545X, ASA-5555X



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Unified Hardware



NGFW - Cisco ASA



NGIPS- Cisco FirePower



APT - Cisco AMP



Cisco ASA 5500-X

Cisco ASA 5585-X

Cisco FirePower 4100/9300

Unified Management

*Unified Management**

*Unified Management
Up to 225Gbps
FW, NGFW, NGIPS, AMP, DDoS..*



Highest Security Effectiveness
- NSS Labs Breach Detection Test 2015



Breach Detection Time
- 2016 Annual Security Report



Savings from Security Automation
- SANS Institute

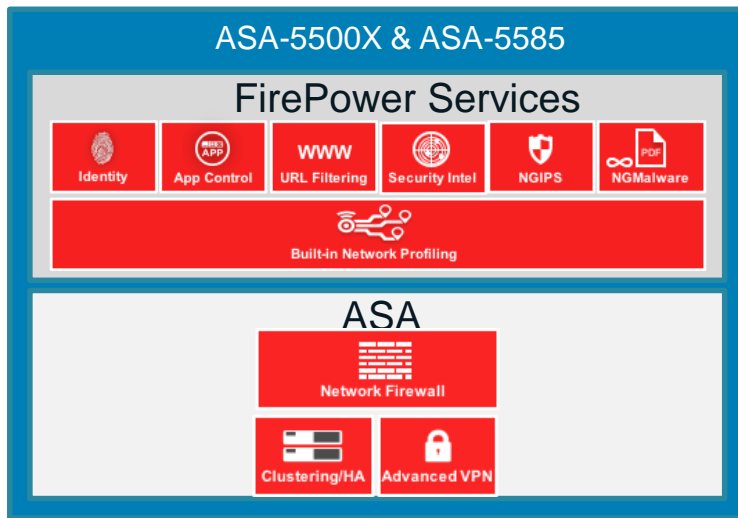
*Roadmap

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Unified Software

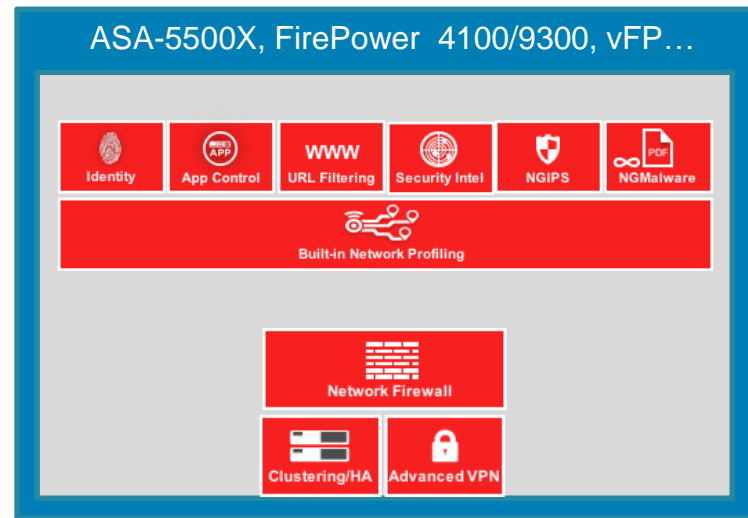


ASA with FirePower Services



2014

FirePower Threat Defense*



2016



Highest Security Effectiveness
- NSS Labs Breach Detection Test 2015



Breach Detection Time
- 2016 Annual Security Report



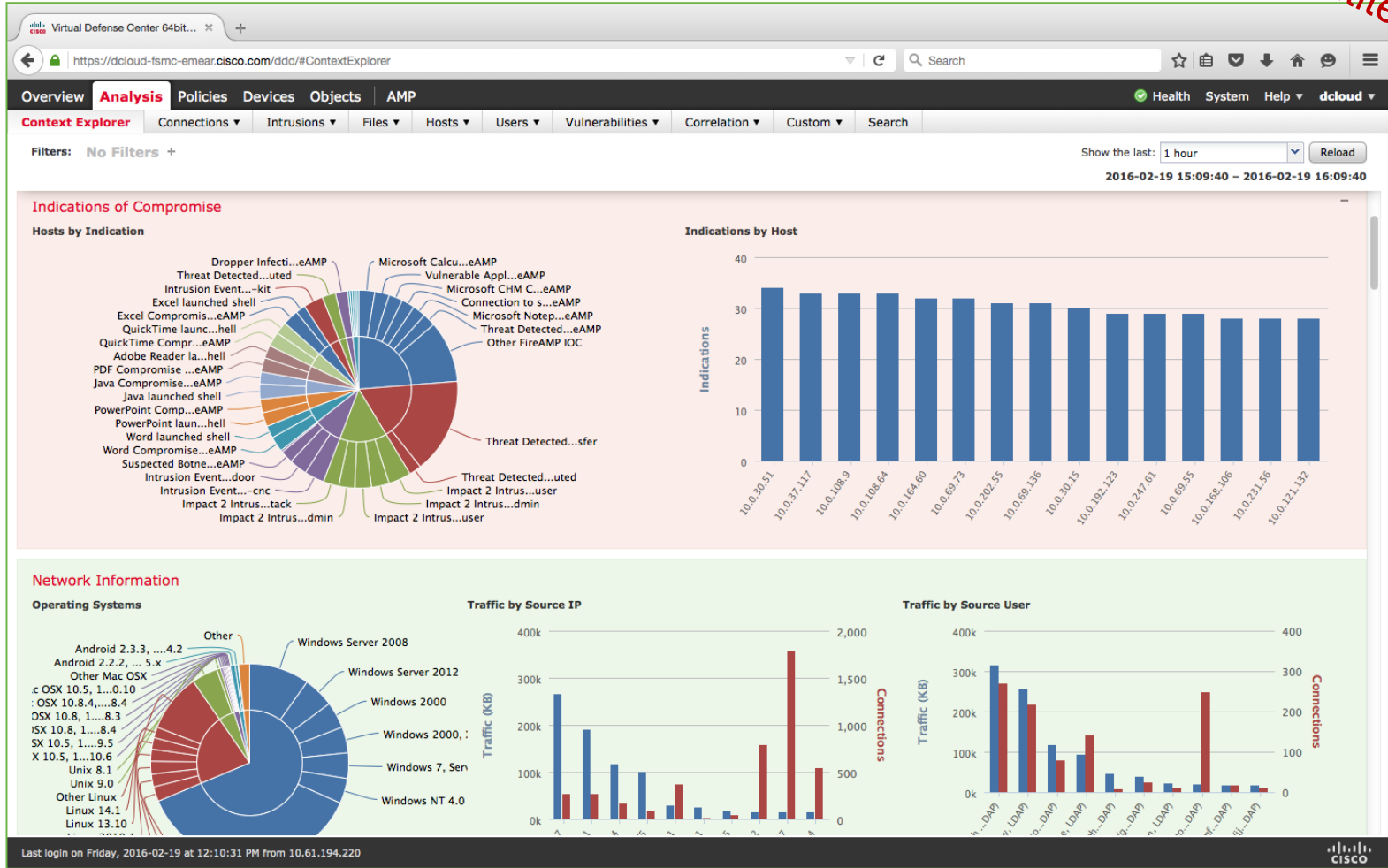
Savings from Security Automation
- SANS Institute

Cisco FirePower NGFW Unified Management



Cisco Firepower Management Center

Multitenant



Cisco FirePower NGFW

Unified Threat Response

