



Email and Web Security are more important than ever

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Which tree is
alive?

Agenda

Web and email in the portfolio context

Top two attack vectors


How it works

What's new

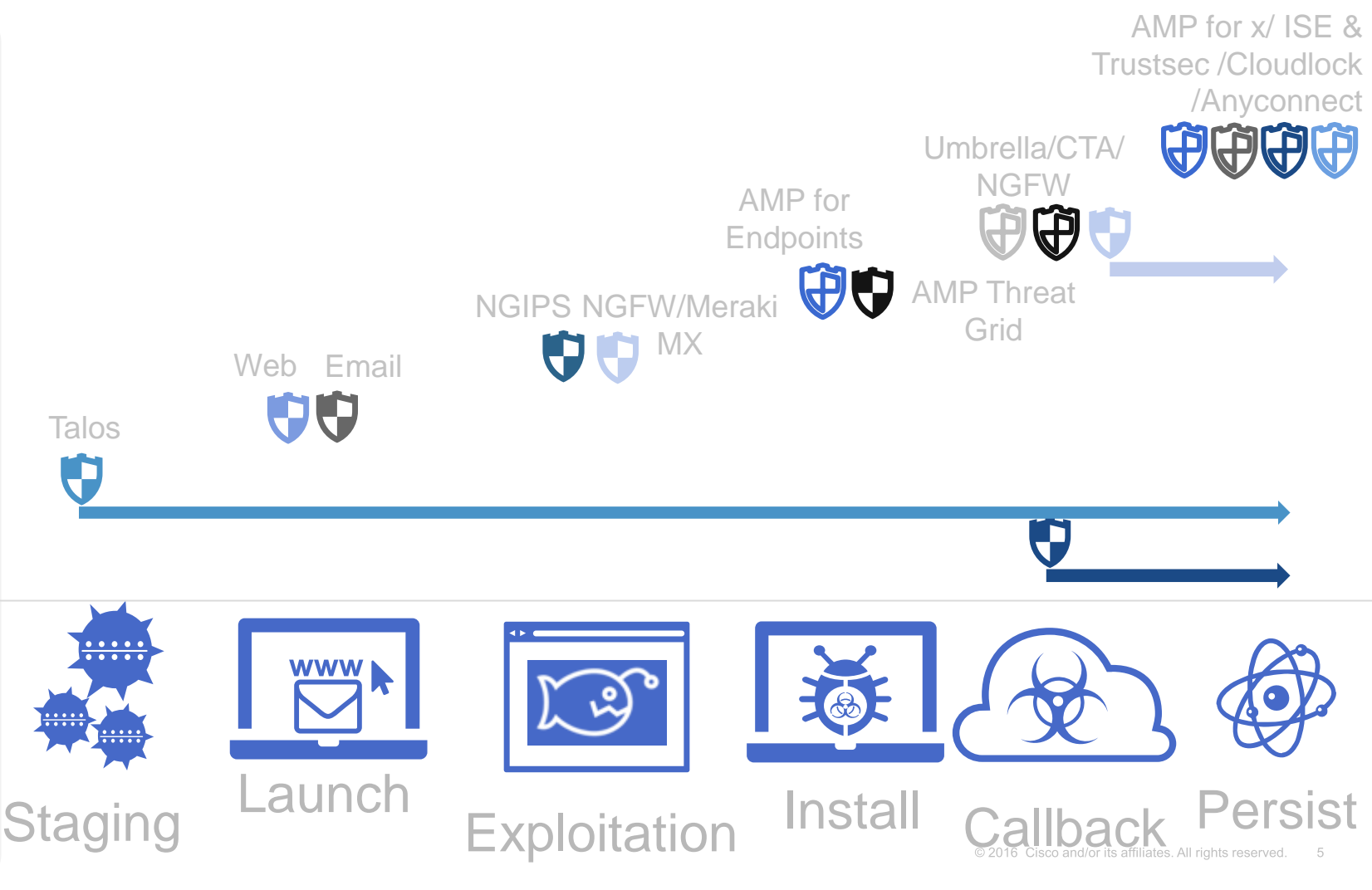
Future vision

Web and email in the portfolio context

Stealthwatch







Recon

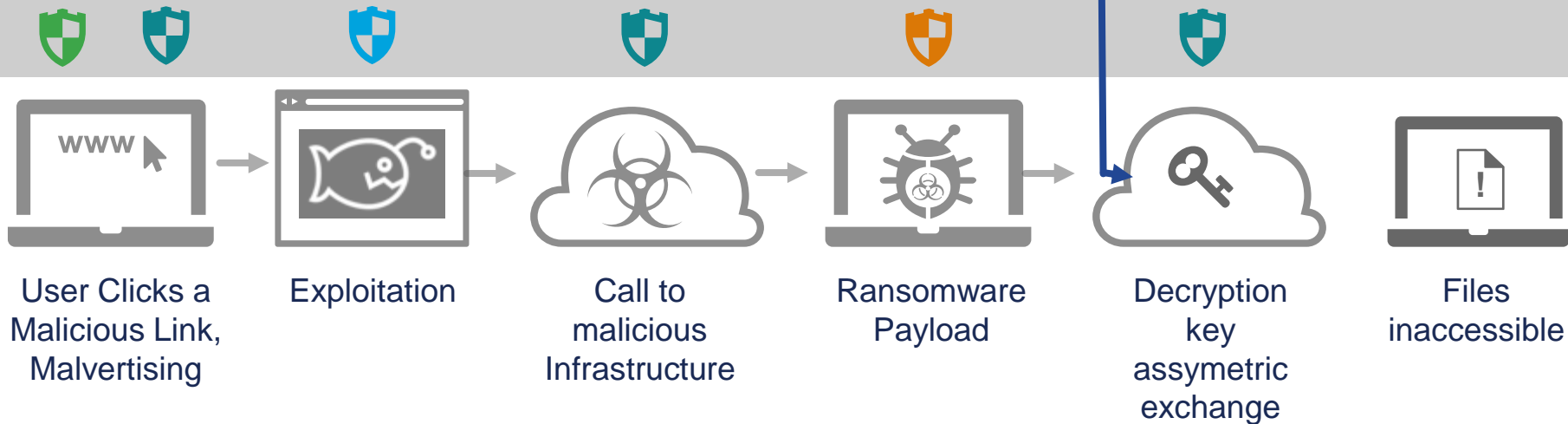



Ransomware kill chain and a multi-layer defense

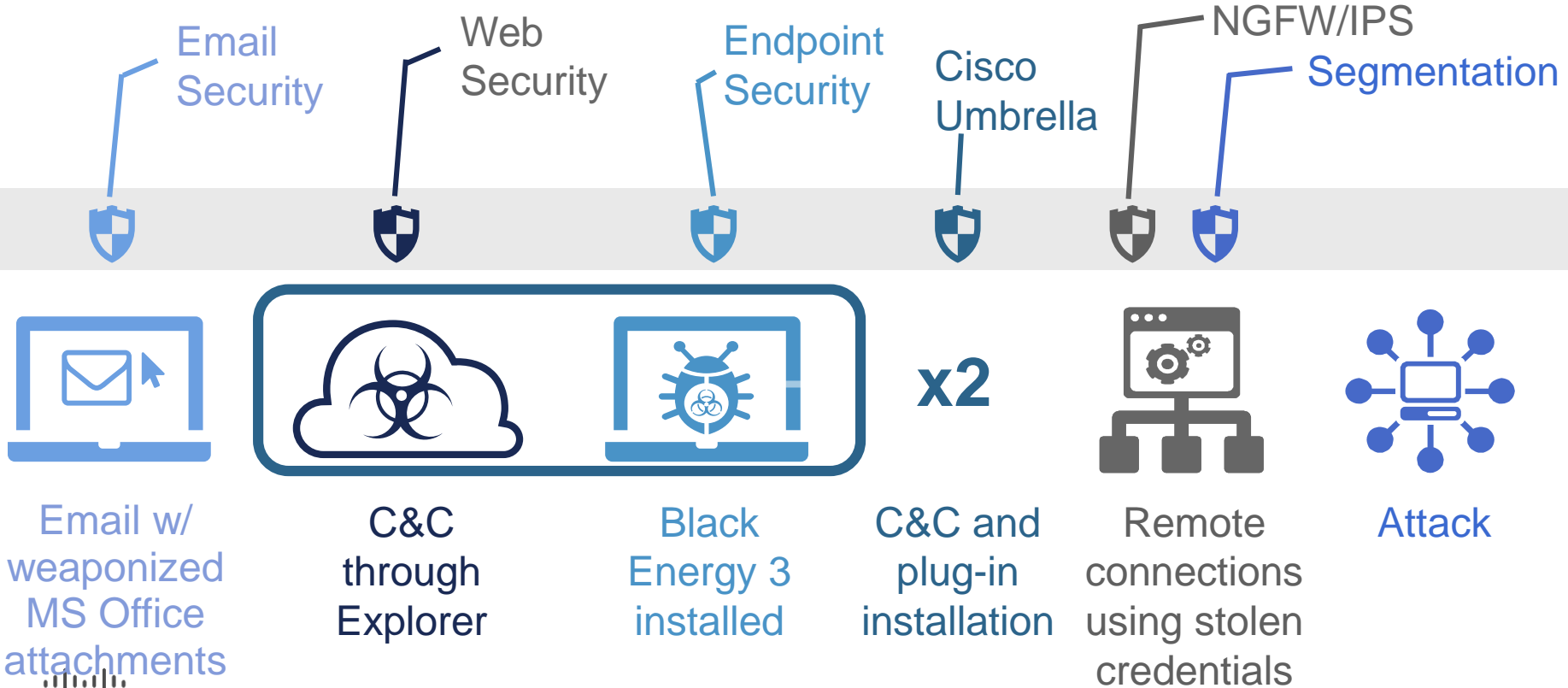
Email w/ Ransomware Payload



-  Email Security
-  DNS Layer
-  Endpoint Security
-  Intrusion Prevention



Email and Web Security are also important for OT environments



Top two attack vectors

Adware and Malvertising Shift Into High Gear



Malvertising

Using brokers (gates) to increase speed and agility

Switching quickly between servers without changing redirection

ShadowGate: a cost-effective campaign



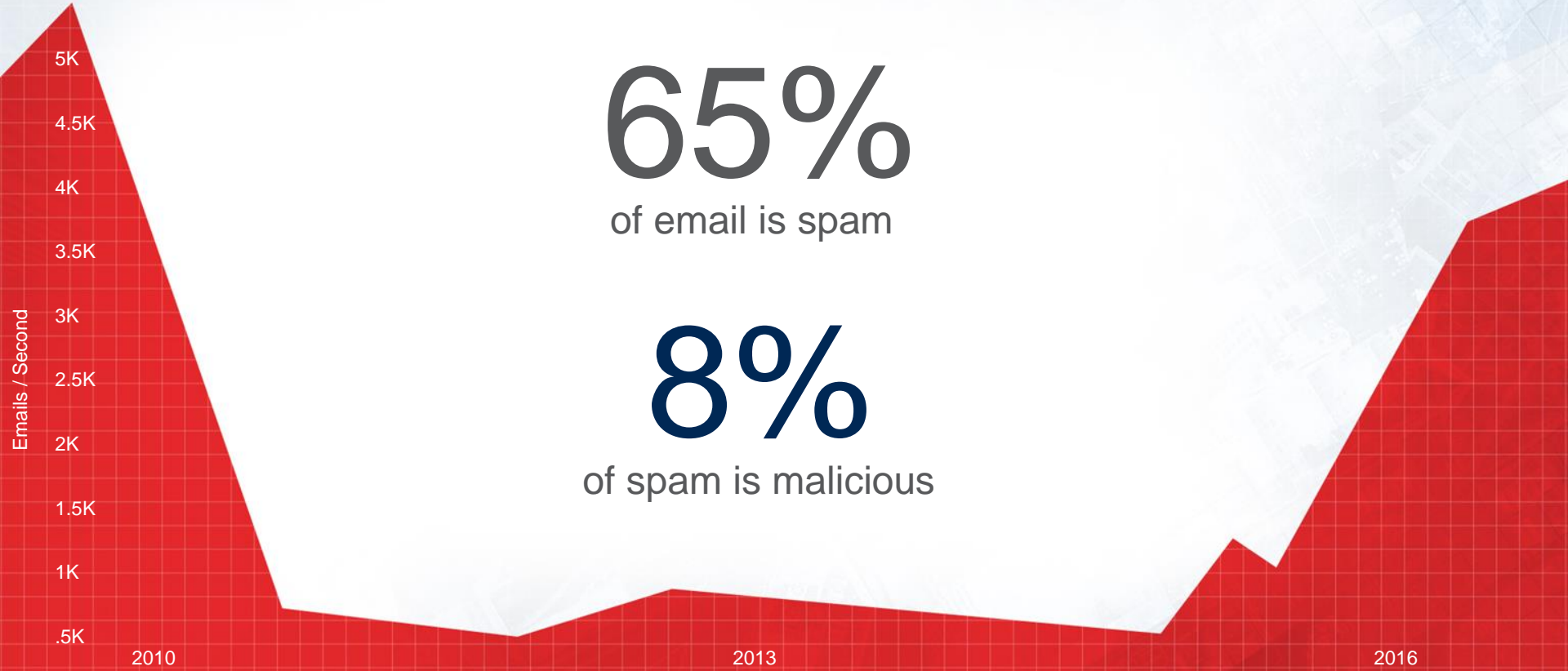
Adware

75%

of organizations investigated had adware infections

Spam Comes Roaring Back

Email is Back in Vogue



65%
of email is spam

8%
of spam is malicious

Spam Attacks: Snowshoe and Hailstorm

Snowshoe

Uses various IP address.
Hides from detection with
low volume.

Hailstorm

Highly-concentrated.
High-speed. Uses speed
and volume to bypass
detection.

Spoofing rates are on the rise



Phishing



Spoofing



Ransomware



¹FBI Warns of Dramatic Increase in Business email
scams, 2016

Forged addresses
fool recipients

Threat actors extensively
research targets

Money and sensitive
information are targeted

How it works

Detect threats embedded in email content

Reputation filter Anti spam Graymail detection Threat outbreak filters Content filters



Optimize detection with machine and human intelligence

Stop more than 99% of Spam

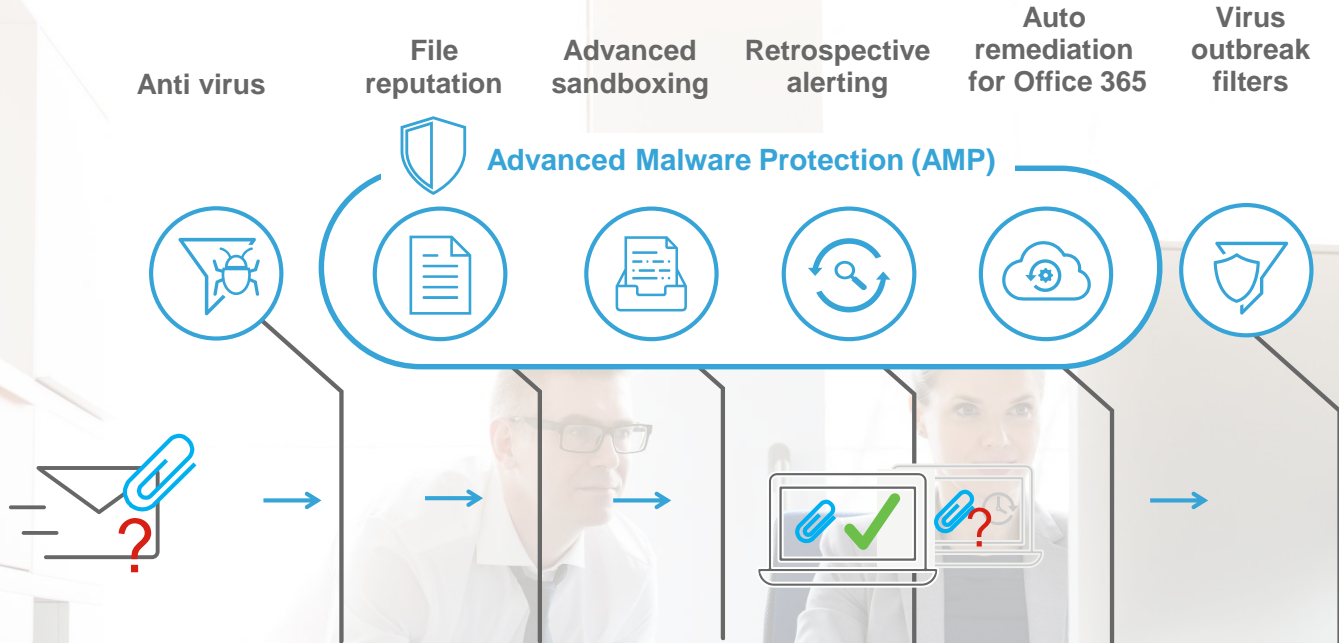
Keep good emails flowing with a < 1 in 1M false-positive rate

Guard against malicious attachments

Track email behavior with over 560 indicators

Quickly neutralize threats with Zero Hour Malware Protection

Continuously track files with retrospective security



Anti virus

File reputation

Advanced sandboxing

Retrospective alerting

Auto remediation for Office 365

Virus outbreak filters

Advanced Malware Protection (AMP)

A Leader in Security Effectiveness

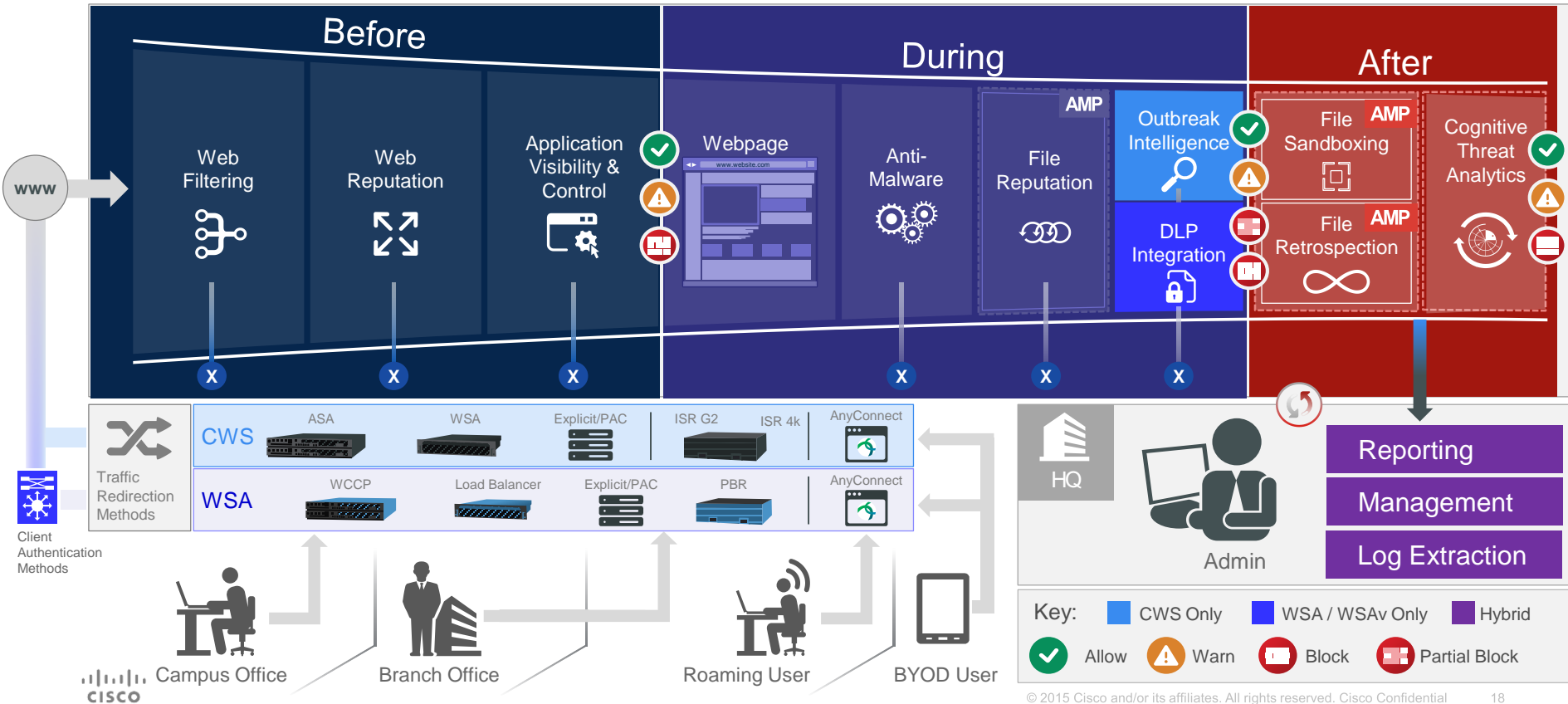
Only Cisco with its architectural approach to security can provide an integrated solution that can see a threat once and block it everywhere.



Figure 1. NSS Breach Detection Test Results for Cisco

Product				Breach Detection Rate ¹		NSS-Tested Throughput	
Cisco Firepower 8120 with NGIPS v6.0 and Advanced Malware Protection				100.0%		1,000 Mbps	
False Positives	Drive-by Exploits	Social Exploits	HTTP Malware	SMTP Malware	Offline Infections	Evasions	Stability & Reliability
0.33%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	PASS

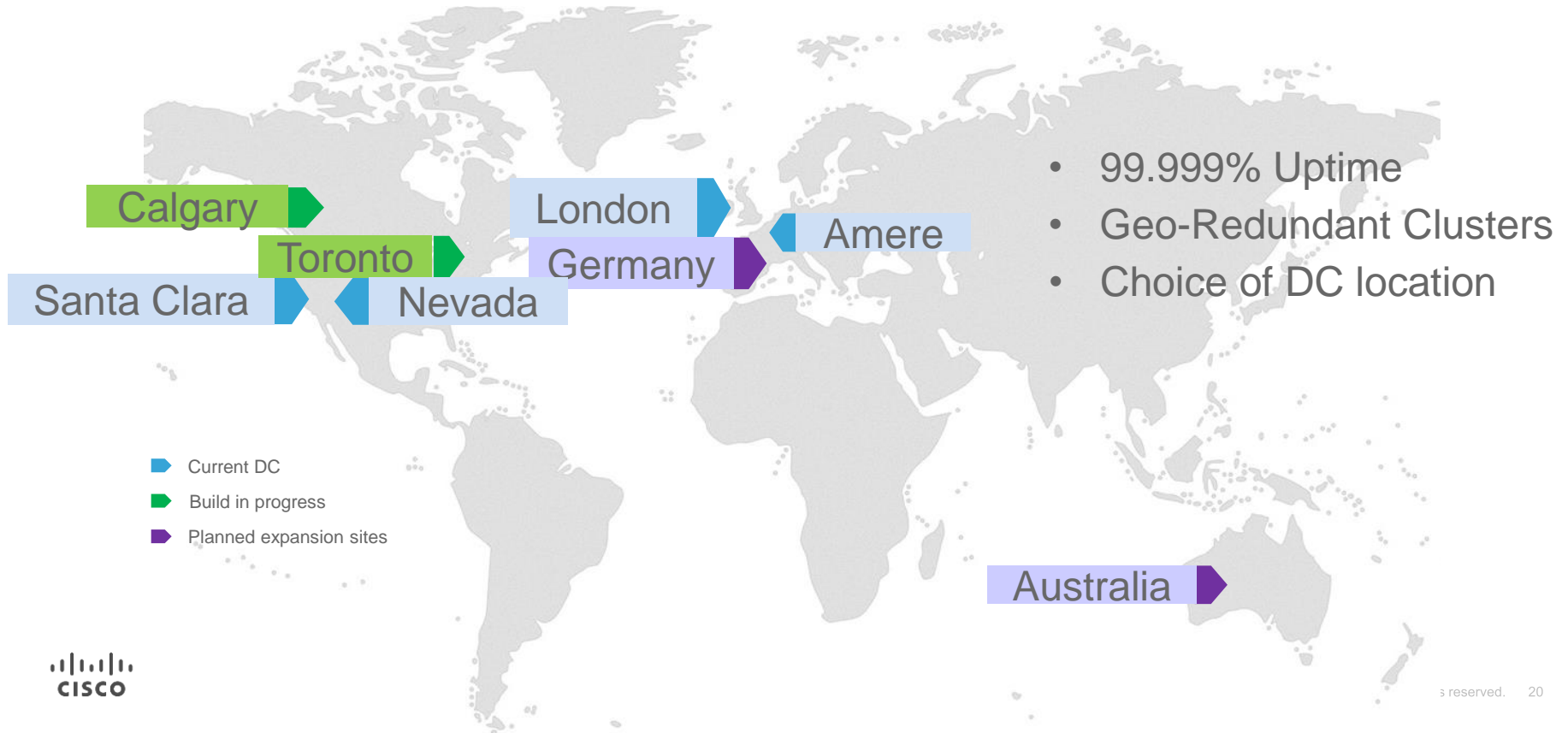
- **A leader for 3rd year in a row in BDS test – detecting 100% of malware, exploits & evasions.**
- **Faster time to detection than any other vendor**
- Cisco delivers breach detection across **more platforms and attack vectors** than any other solution - blocking more threats, faster.



What's new

Cloud Email Security

New Data Centers



ESA - AsyncOS 10.0



Improved AMP Reporting



Forged Email Detection



Lower tier pricing



SAML Authentication



Cisco Email Security
AsyncOS 10.0



Malware Auto-Remediation
for Office 365 Customers



AMP Private Cloud



URL Logging &
Message Tracking



Language Detection
& Filter Actions



Reduce exposure

Support growth

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Achieve agility

WSA - Async 10.0



Easier management of exceptions



On-premises options for privacy concerns



Better user experience for https browsing

YouTube is blocked as a corporate policy but when browsed using corporate website is allowed.



Facebook is blocked, but certain pages on facebook.com allowed when referred from Cisco.com

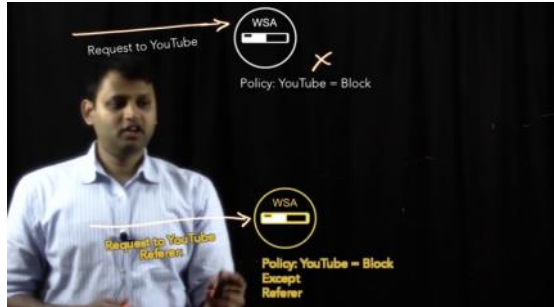


Security Chalk Talks

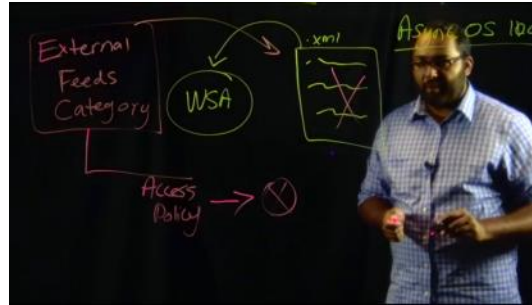
https://www.youtube.com/playlist?list=PLFT-9JpKjRTANXKBmLbQ611TPYLXbUL_0



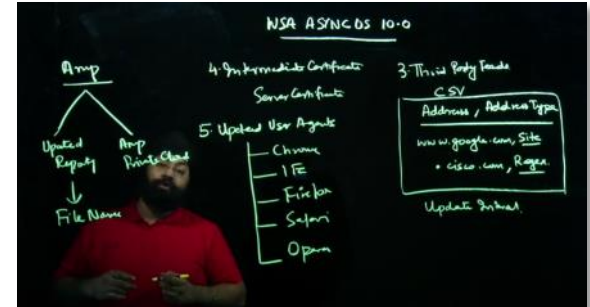
Referrer Header Bypass



External Feeds Category

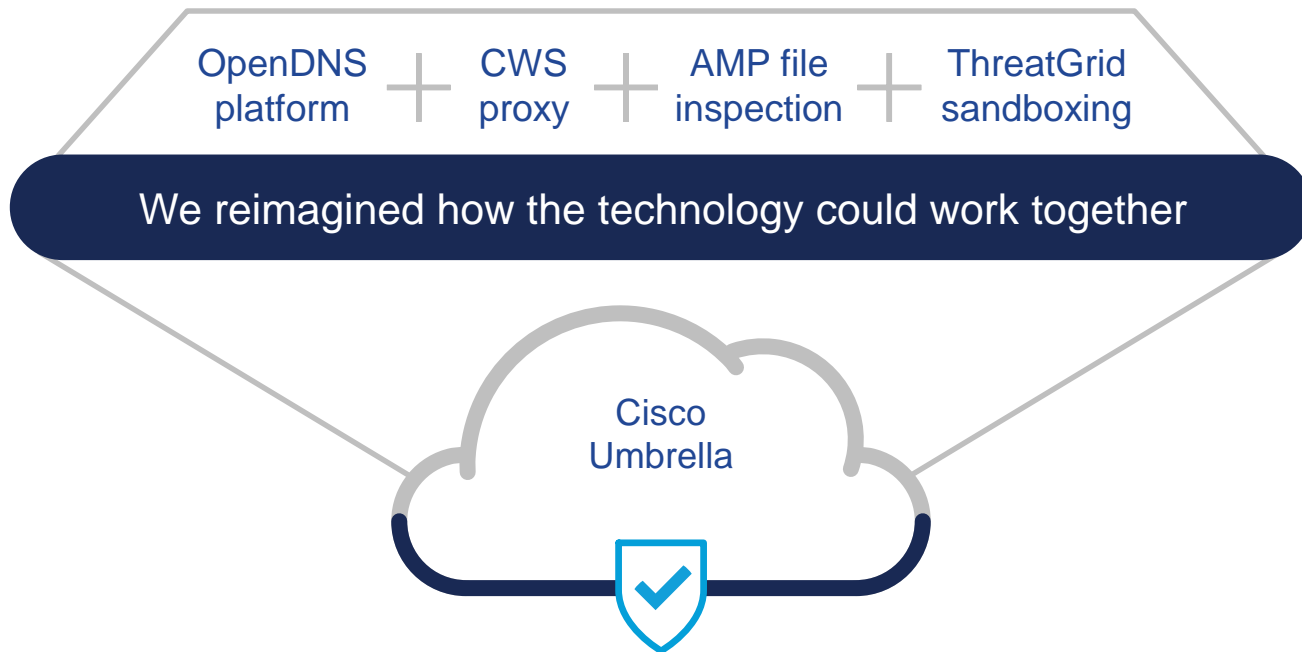


AsyncOS 10.0 Overview

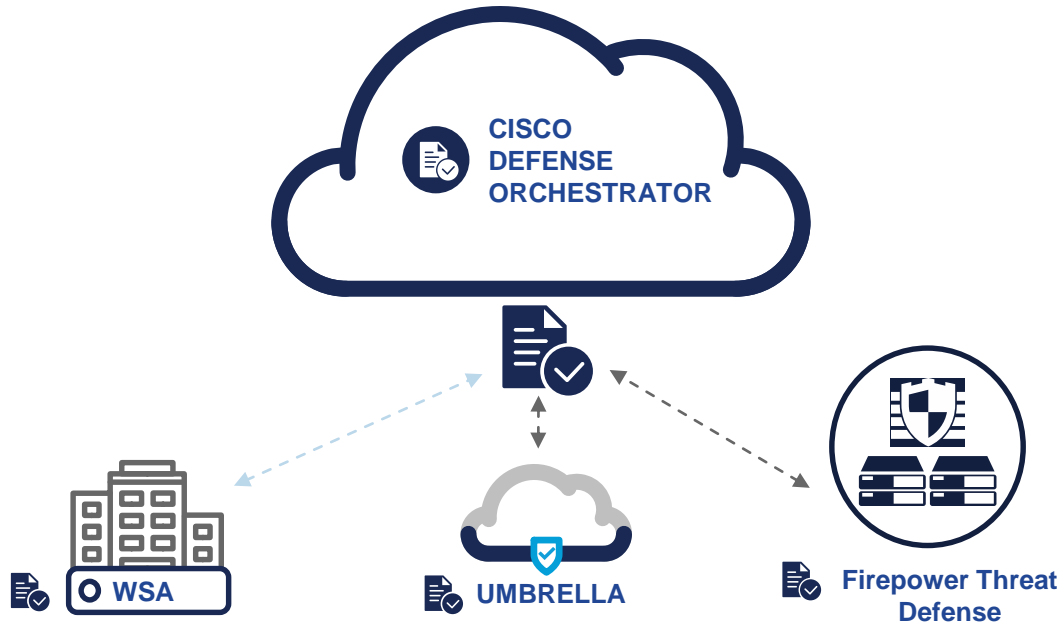


Roadmap and vision

Cisco Umbrella: the making of Cisco's Secure Internet Gateway



Cloud Defense Orchestrator – now available in Europe



How Umbrella fits with Cisco Web Security Appliance (WSA)

Flexibility to fit different use cases



Umbrella provides safe internet access anywhere users go, even off the VPN

WSA solves on-prem requirements for usage/bandwidth controls and compliance

Cisco Defense Orchestrator (CDO) for ongoing policy management

Single place to add domains/URLs to block across cloud (Umbrella) and on-prem (WSA, NGFW)

What kind of a boat would you need?



Country of records: most active volcano, largest waterfall, cleanest capital, longest life expectancy, first female president, northern most botanical garden and golf course

Iceland plants most trees per head

Country with youngest land-mass

English word 'geyser' comes from Great Geysir in Haukadalur

