Don't be a phish!

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Email and Web security

Dragan Novakovic Cisco Systems



Cisco Email Security Solutions

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Email is still the #1 threat vector

...... CISCO

Phishing leaves businesses on the line









	Ransomware
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94% of phish mail has malicious attachments¹

30% of phishing messages are opened¹

\$500M

Loss incurred due to phishing attacks in a year by US companies²

¹2016 Cisco Annual Security Report ²2016 Verizon Data Breach Report, Kerbs on Security

Messages contain attachments and URL's

Socially engendered messages are well crafted and specific Credential "hooks" give criminals access to your systems

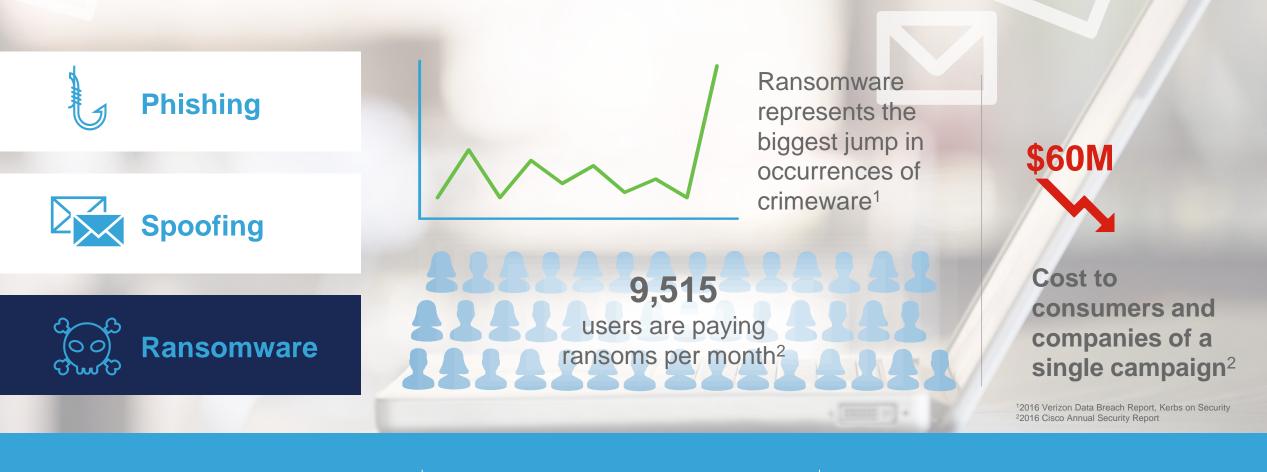


Forged addresses fool recipients

Threat actors extensively research targets

Money and sensitive information are targeted

Ransomware attacks are holding companies hostage

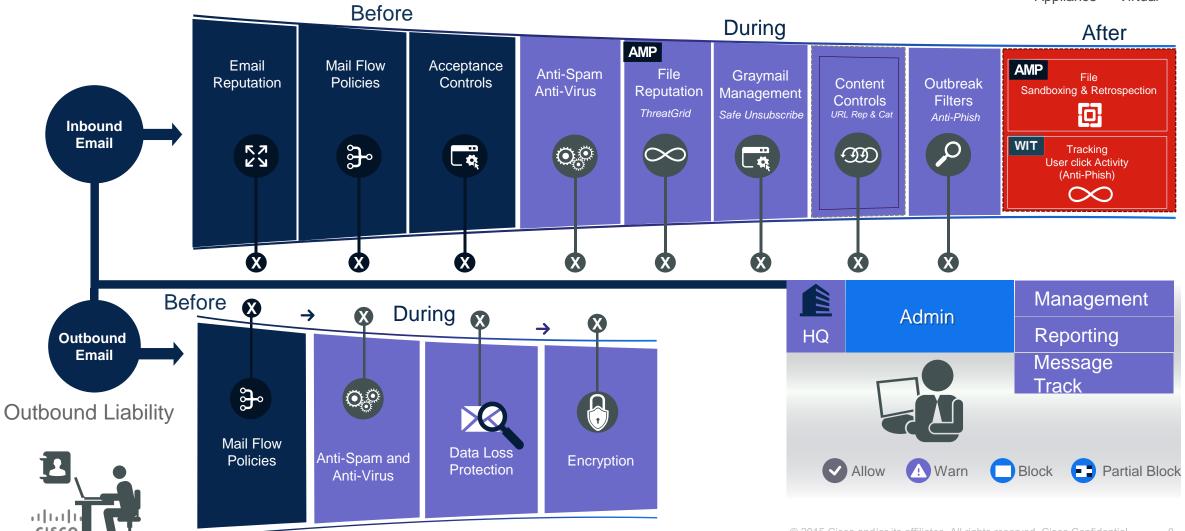


Malware encrypts critical files Locking you out of your own system

Extortion demands are made

Cisco Email Security





Gain security backed by the most advanced threat intelligence

100 TB Of Data Received Daily

> 1.5 MILLION Daily Malware Samples

A Store

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600 BILLION Daily Email Messages

16 BILLION Daily Web Requests

Talos

24 · 7 · 365 Operations

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Global (



30 years building the world's networks



250+ Full Time Threat Intel Researchers

MILLIONS Of Telemetry Agents

4 Global Data Centers

> Over 100 Threat Intelligence Partners

Detect threats embedded in email content



Guard against malicious attachments

Virus **Auto** outbreak File Advanced **Retrospective** remediation filters alerting for Office 365 Anti virus reputation sandboxing Advanced Malware Protection (AMP) Track email behavior with over Q Ó 560 indicators Quickly neutralize threats with Zero Hour Malware Protection Continuously track files with retrospective security

Reduce the hassle of compliance



Protect intellectual property

- DLP prevents confidential information from leaving your network
- Ensure compliance with industry and government regulations
- RSA and Digital Guardian partnership



Enable users to do business

Encryption ensures your email is confidential with complete control as the sender

- Send confidential mail
- Read receipts
- Recall ability
- Secure reply and forwarding
- ZIX or CRES or S/MIME or TLS

Move to the cloud with confidence



Maintain peak performance with capacity assurance

- Ensure performance with continuous monitoring of system health
- Count on the stability and relatability of a strong tier one infrastructure
- Add capacity easily as message volumes increase



Avoid downtime with 99.999 availability

- Enjoy the highest levels of service availability with dedicated cloud infrastructure
- Receive dedicated IPs and storage
- Prevent shared-fate with compute instances

Expand with security that grows with you



Grow in the cloud

Increase dedicated instances up to 50% of the originally sized environment at no cost **Expand geographically**

Utilize Cisco's data center footprint as you grow into new regions



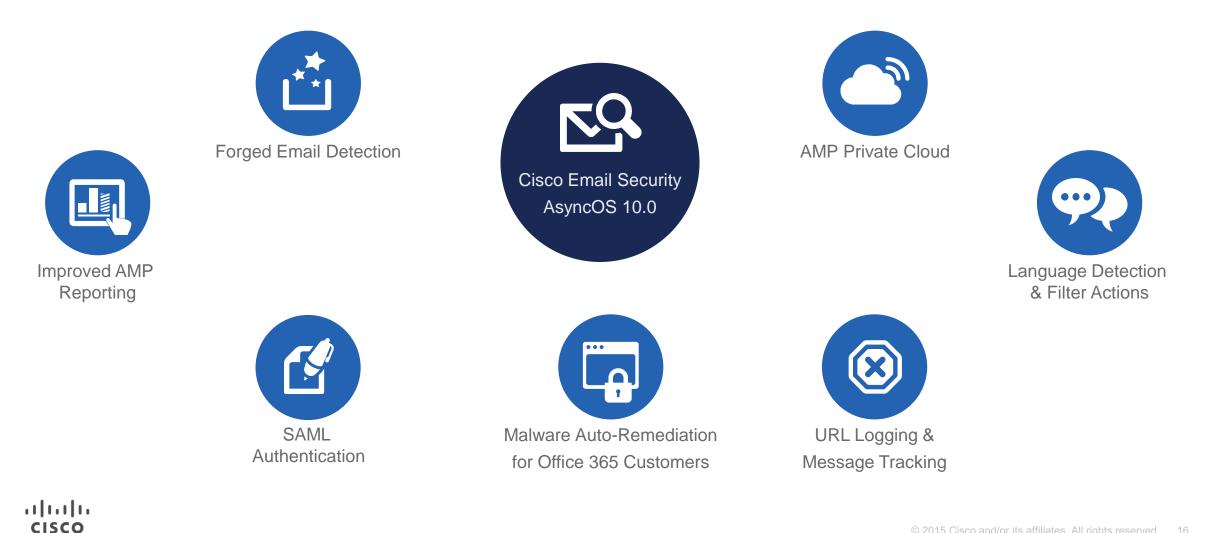
Gain full admin access

- Maintain full admin level access to your appliances at all times
- Easily orchestrate changes
 or access reports

Optimize security resources to focus on business outcomes



AsyncOS 10.0 – Feature rich release



Think Before You Click

● ● ● ▷ ལ 🛱 Message				Final version of the report - Inbox					
Delete	Reply	Reply	Forward	Meeting	Move	💦 Junk ▼	Read/Unread	Categorize	Follow
	Final version of the report								
J	T	Tuesday To: Dra	/, Noverr agan Nov	ani <joseph.trib aber 8, 2016 at 12 vakovic (dnovakov 2_FINAL.doc (15.9</joseph.trib 	:59 PM /)	gts.org>			

Dear Dragan,

Alisha Calderon asked me to send you the attached document, which contains the final version of the report. Please let me know if you have any trouble with the file, and please let Alisha know if you have any questions about the contents of the report.

Kind regards,

Joseph Gibson Program Mgr, Operations





This is an approved phishing test delivered by the Cisco Information Security team.

You just opened an attachment in a test phishing e-mail. If this was not a test, your action may have exposed Cisco to risk of malware or data compromise. The following signs should have alerted you that this was a phishing email:

- · Unknown Sender unexpected external message, sender does not match name at bottom of e-mail
- Unexpected attachment unsolicited e-mails with attachments are a common sign of phishing

This phishing sample is based on a real phishing e-mail used to deliver the Locky ransomware and JSDropper malware. The good news is this - it was just a test. Please visit our Phishpond awareness site, http://phishpond.cisco.com, to validate this test, learn about the various types of phishing attacks, and understand how to handle them.

Please send questions or comments about this training program to infosec-phishing-feedback@cisco.com.

What is ransomware?

Ransomware is a type of malicious code that if executed on your system, usually through an attachment or link, will lock your sytem, encrypt the hard drive, and demand a

payment in return for the key to unlock your files. You can protect yourself through the following steps:

- 1. Do not open unexpected attachments from unknown senders. Exercise caution.
- 2. Make sure your work and home computers are protected by antimalware software.
- 3. Enable pop-up blockers.
- 4. Backup your systems regularly



Some phishing attacks simply need you to click a link in order to launch an exploit against your web browser, infecting your computer with viruses and malware.

We have seen successful phishing attempts against CEOs of Fortune 500 companies, security professionals, IT administrators, customer service representatives, and accountants alike.

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Every user will be targeted at some point.

With Cisco email security, you can...

Reduce exposure

Support growth

Achieve agility



with advanced threat protection

with availability and assurance

through operational efficiency

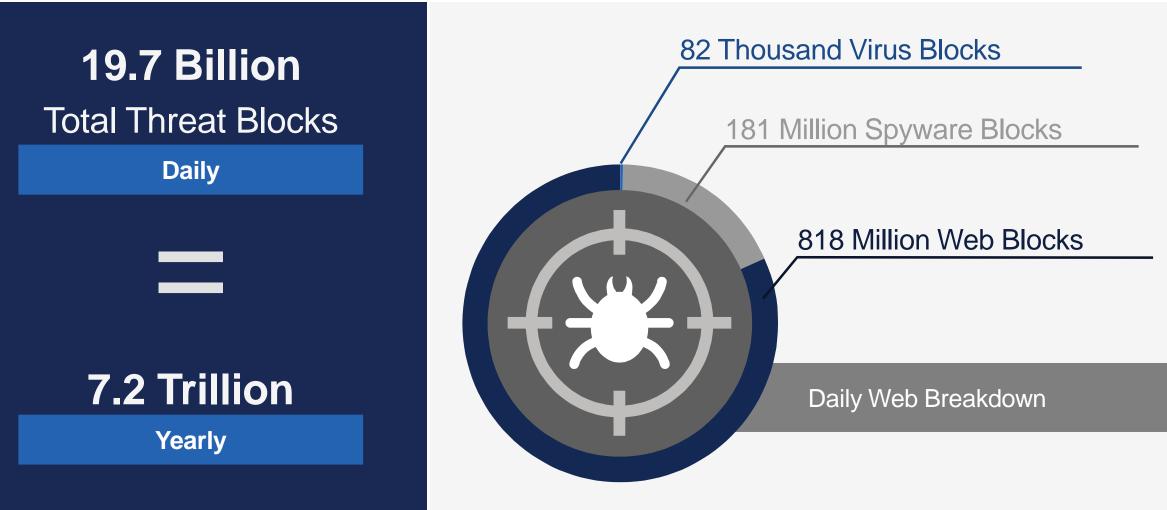


Cisco Web Security Solutions

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Why Web Security?



Cisco Web Security Protects the Web Vector While Supporting Your Business





NSAL O

Branch Office

Talos 😡

WWW

Client

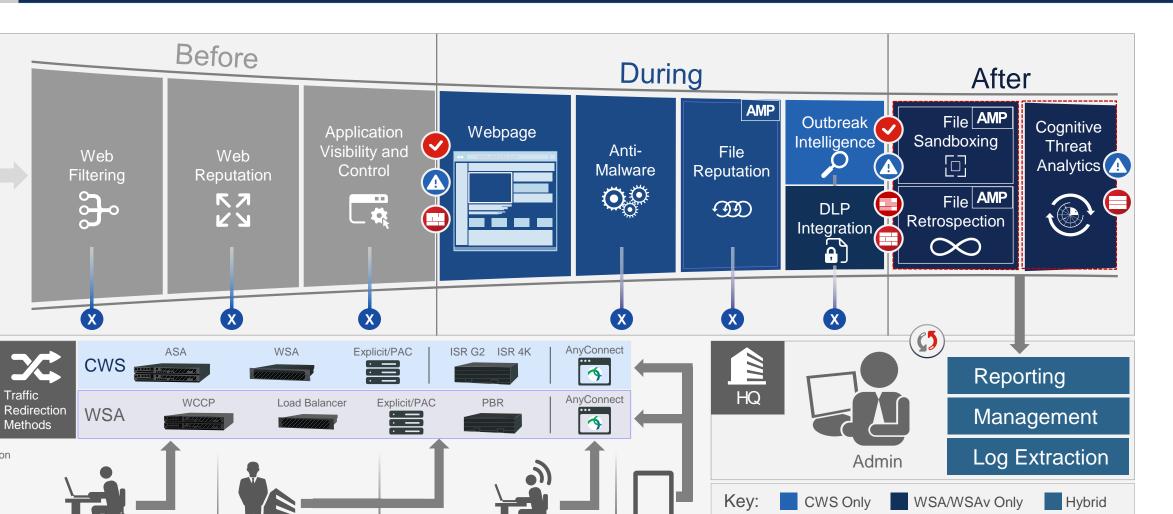
Methods

Authentication

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• WSA =

Campus Office



Roaming User

Partial Block

Block

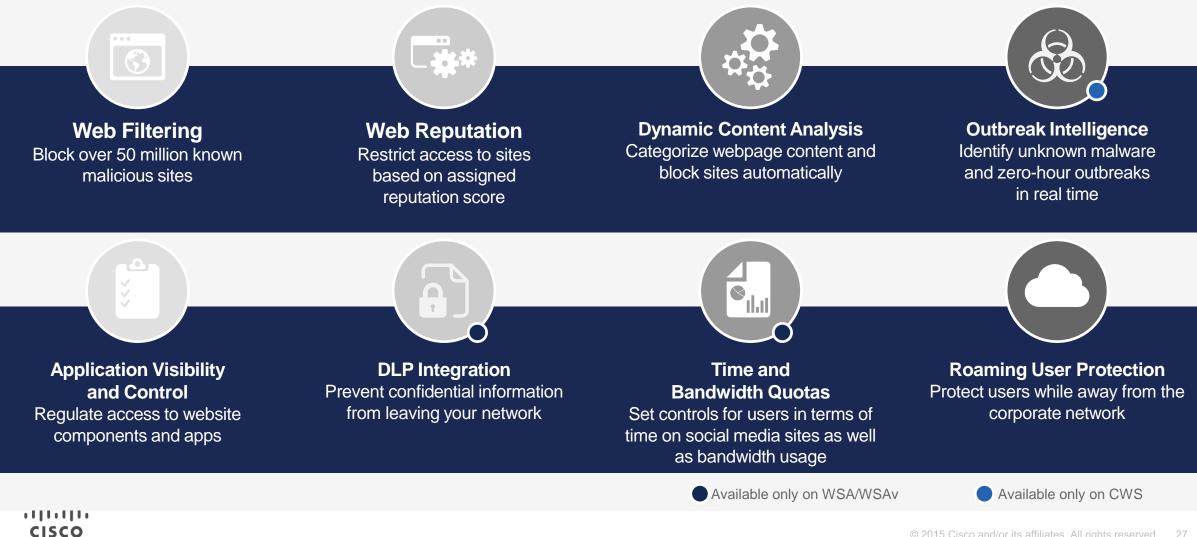
Allow 🚺 Warn

 \checkmark

BYOD User

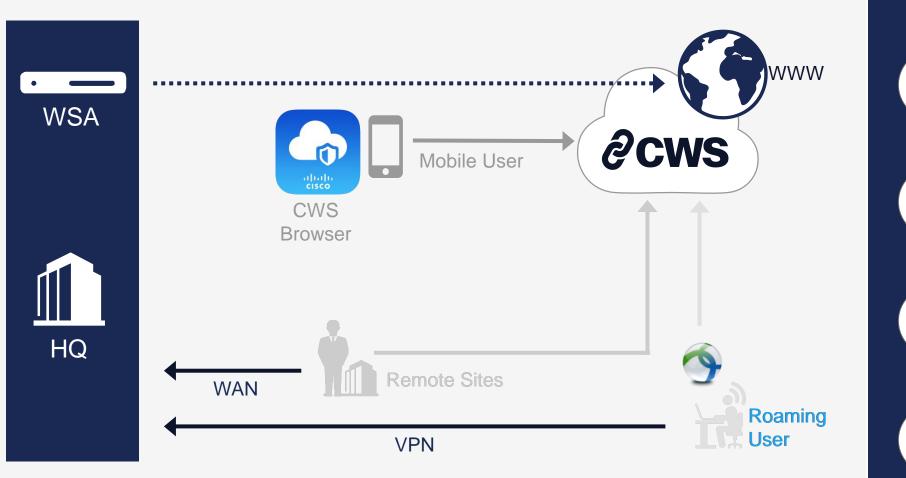
*∂*CWS

It Starts with Usage Control and Active Defense





Extending Protection Beyond the Network



Key Benefits



Im
us

Improve user experience

Defend
agains

Defend against malware





And Extending User Identity and Context



CISCO

ISE Integration

Acquires important context and identity from the network

Monitors and provides visibility into unauthorized access

Provides differentiated access to the network

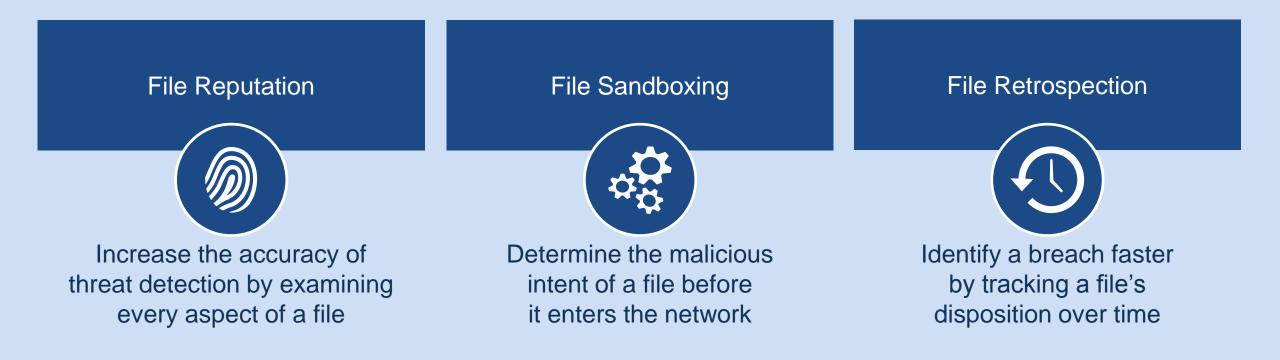
Cisco TrustSec[®] provides segmentation throughout the network

Cisco Web Security Appliance provides web security and policy enforcement



Cisco Web Security Combats Evolving Threats

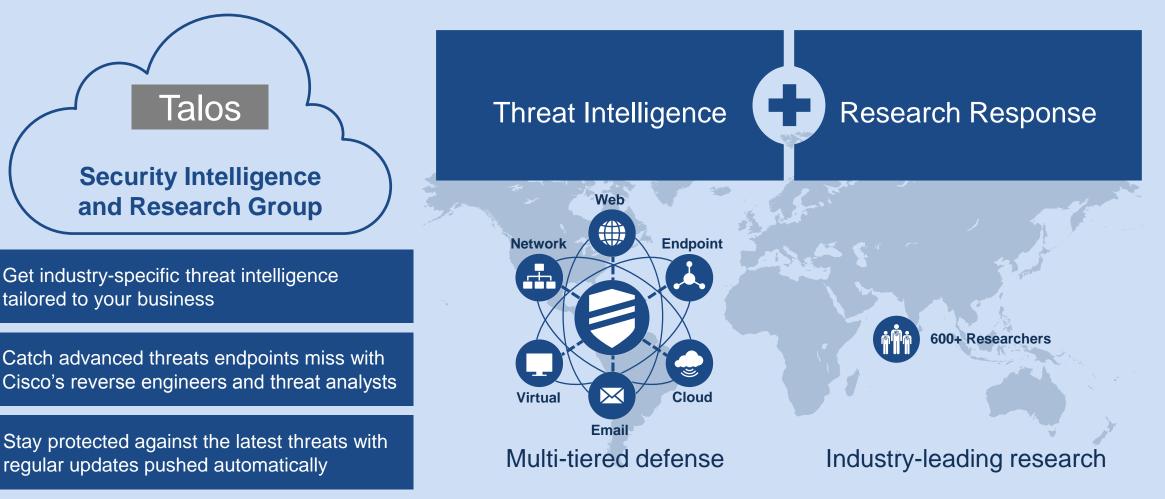
Cisco Advanced Malware Protection (AMP)



CISCO



Updating Security to Meet Tomorrow's Challenges





Identifying Unnamed Threats and Breaches

Continuous Capabilities with Cisco[®] Cognitive Threat Analytics (CTA)



Anomaly Detection

Detect infections faster by automatically scanning for symptoms of an attack

CISCO



Behavioral Analysis

Identify unknown breaches by analyzing a user's behavior over time

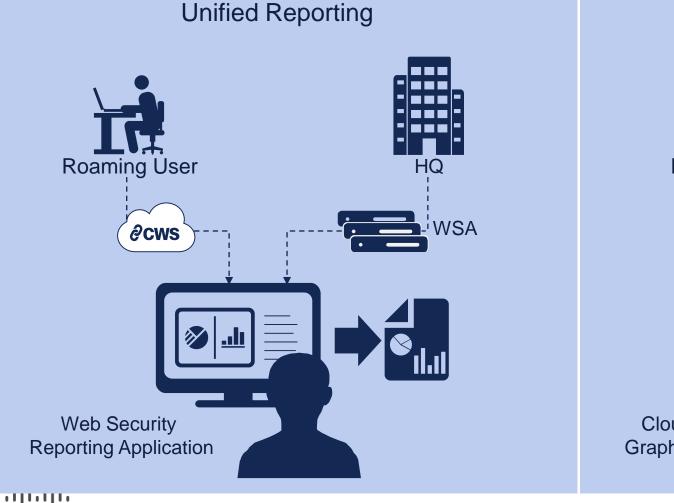


Machine Learning

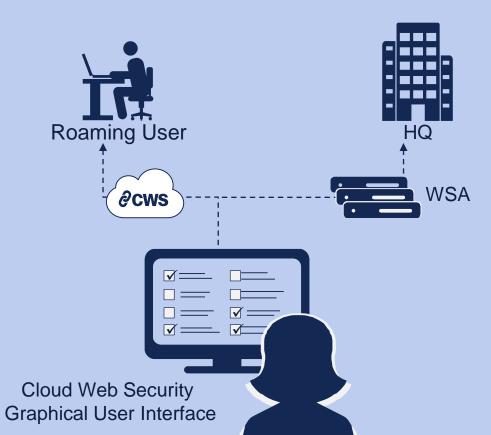
Automatically learn and adapt to threats with big-data algorithms



With Unified Reporting and Policy Management



CISCO

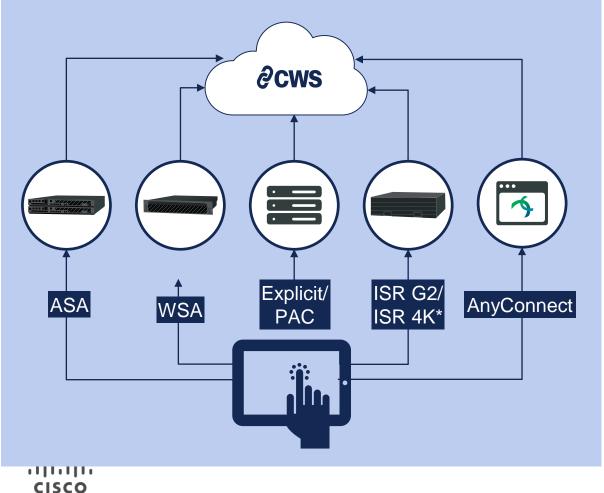


Unified Policies



And Work with Your Existing Environment

CWS Traffic Redirectors





Virtual Appliance (WSAv) Respond instantly to traffic spikes and eliminate capacity planning by never shipping or installing a physical appliance

*GRE over IPsec

We've Been Busy New Capabilities for Web Security Appliance

March	July	Sept	Dec	Jan
V8.7	V8.8	V9.0	V9.1	V9.2
 Identity Services Engine (ISE) Integration CTA Integration Unified Hybrid Reporting 	 AMP ThreatGrid Integration AMP File Pre- classification Secure ICAP support 	 TLS1.1 and TLS 1.2 Performance Improvements 	•X90 Hardware support	•Hybrid Policy Support

18 new features delivered in 5 releases!

Only Cisco Offers Web Security with Advanced Threat Protection



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Thank you

