



Cisco Email Security

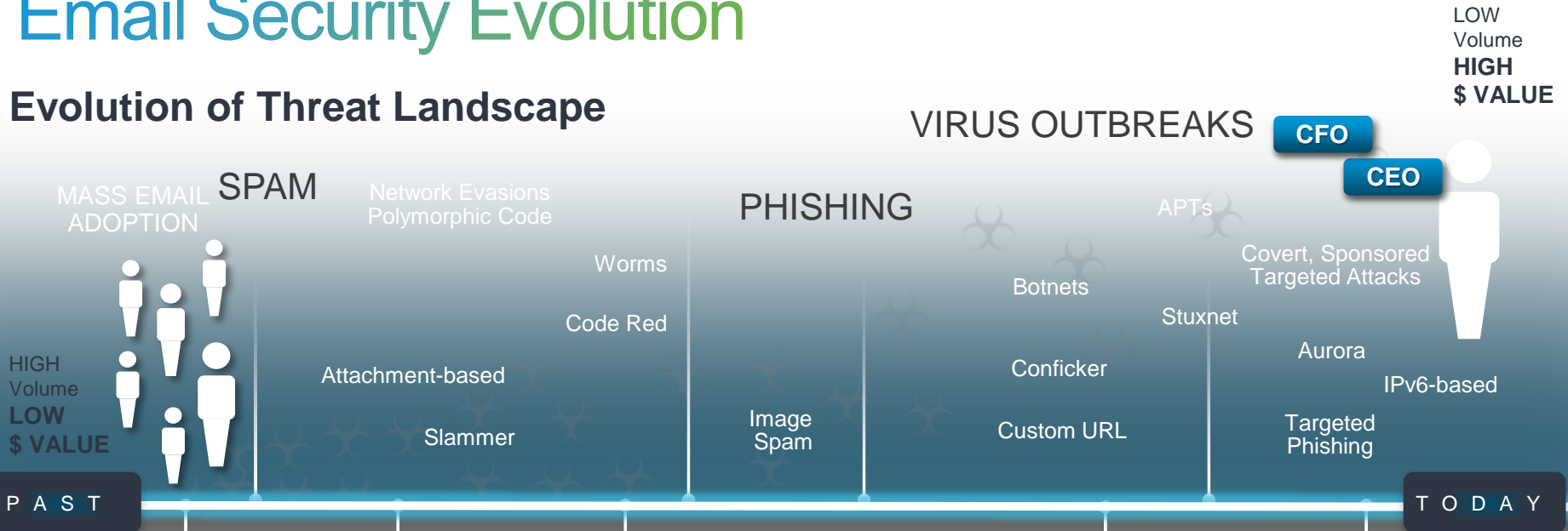
Industry-leading Messaging
Gateway with Threat Protection

ARNE d.o.o. Slovenija



Email Security Evolution

Evolution of Threat Landscape



LOW Volume
LOW \$ IMPACT

Quarantine Filter

Encrypt Everything

Intellectual Property

DLP

Data Classification

State Regulations

Brand

TLS

HIPAA

Social Security Numbers

COMPLIANCE

CUSTOMER ASSETS

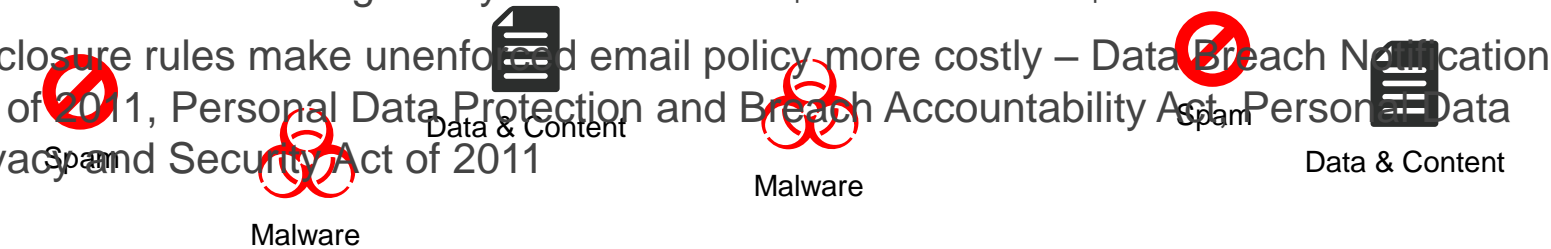
HIGH Volume
HIGH \$ IMPACT

Evolution of Outbound Protection

Inbound & Outbound Threats Today

Real cost of insider threats and unenforced security policy

- ✓ The cost of just one data breach can be staggering for an organization. Ponemon Institute estimates ranges anywhere from US\$1 million to US\$58 million.*
- ✓ Disclosure rules make unenforced email policy more costly – Data Breach Notification Act of 2011, Personal Data Protection and Breach Accountability Act, Personal Data Privacy and Security Act of 2011



Inbound



Outbound

Email is a key vector for data loss/leakage

*Email Attacks: This Time It's Personal, Cisco, June 2011, www.cisco.com/en/US/prod/collateral/vpndevc/ps10128/ps10339/ps10354/targeted_attacks.pdf

Email User Evolution

Securing Email for the Evolving Workforce

YESTERDAY'S EMAIL USER

Checked email only from
company issued workstations

Text with attachment

Always accessed email from
behind the corporate firewall

P A S T

- ✓ 7 billion mobile devices worldwide by 2015
- ✓ 1 in 3 employees uses at least 3 devices for work

THE ANYTIME, ANYWHERE TODAY'S EMAIL USER

Checks email from multiple devices

Expects email access
anytime, anywhere

Global

Blends work and play

Believes IT is ultimately
responsible for security

Rich HTML email

Will violate IT policies
to get the job done

Relies heavily on
Social Media

T O D A Y

Anatomy of an Attack

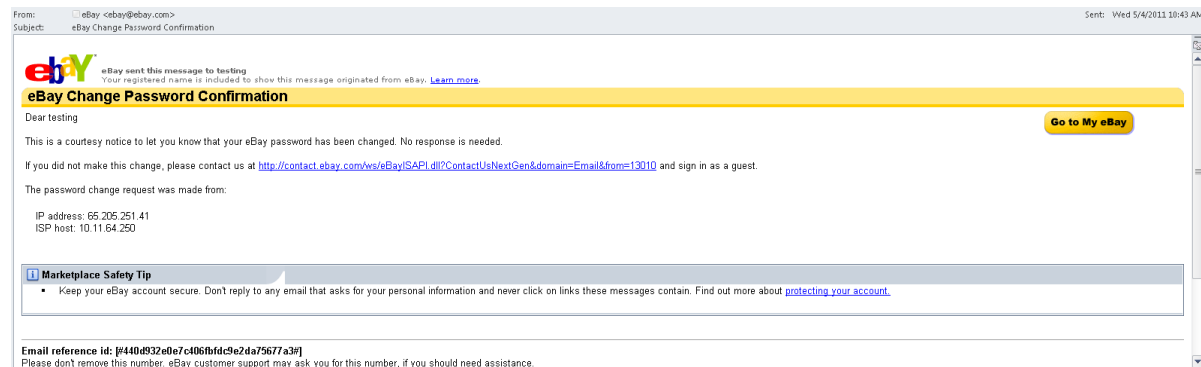
Mobile and social email behavioral patterns that put organizations at risk

- Leaking data through outbound confidential email or damaging reputation through outbound inappropriate email
- Breaching privacy by sending outbound sensitive email unencrypted, including BYOD smartphones and other mobile devices
- Being susceptible to inbound social engineering
 - Opening email from senders in their contacts list and social network
 - Viewing email from organizations and social media they know and trust
 - Clicking on email links for familiar resources they use regularly

Concerns...

- ✓ Data Leakage
- ✓ Privacy Breach
- ✓ Targeted Attacks and APTs

*PayPal/eBay had
103 million
members by 2011
-Bloomberg*



Data Leakage and Privacy Breach

Data loss of customer assets or other sensitive information through email



TARGET
Technology IP



Paul Roberts

Engineering Manager
Global Technology, Co.

Born:
Bethesda, Maryland, 1960
Married with 2 children

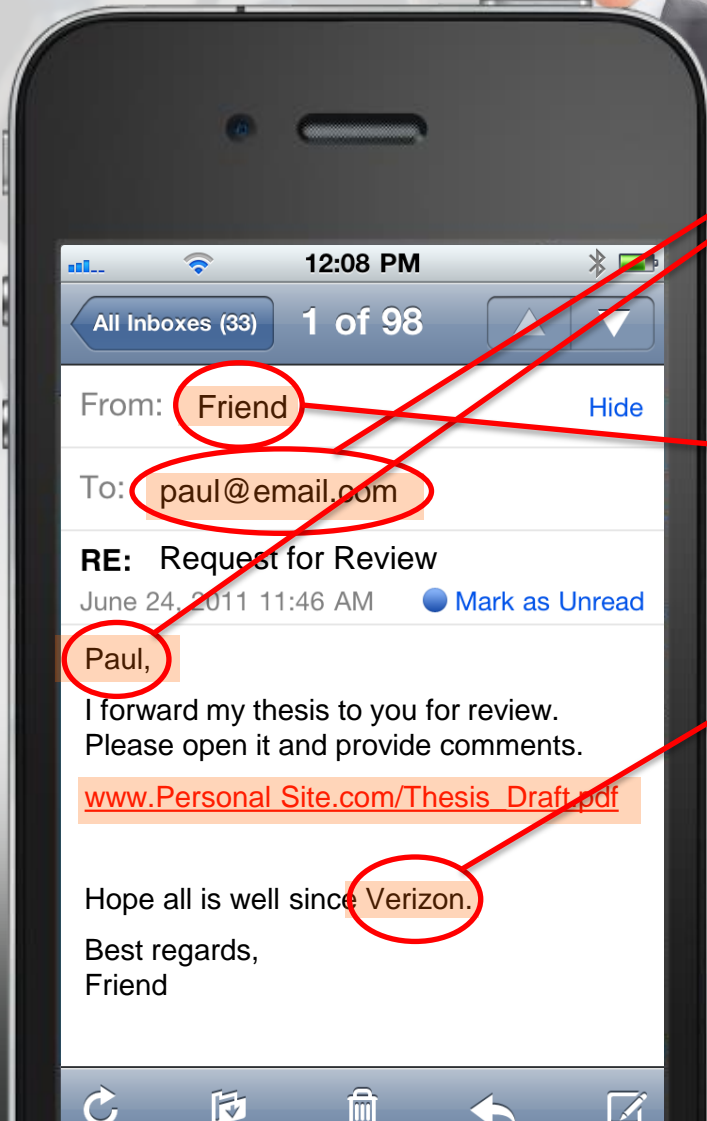
Residence:
Morgan Hill

Favorite football
team: Baltimore Ravens
Previous company:
Verizon



4x

Targeted Attacks have quadrupled in the last year.



Paul Roberts

Engineering Manager
Global Technology, Co.

Born:

Bethesda, Maryland, 1960

Married with 2 children

Residence:

Morgan Hill

Favorite football
team: Baltimore Ravens

Previous company:

Verizon



Target Information
Context
Link to Malware

Cisco SecureX Architecture

Delivering Secure Intelligent Network Architecture



VISIBILITY

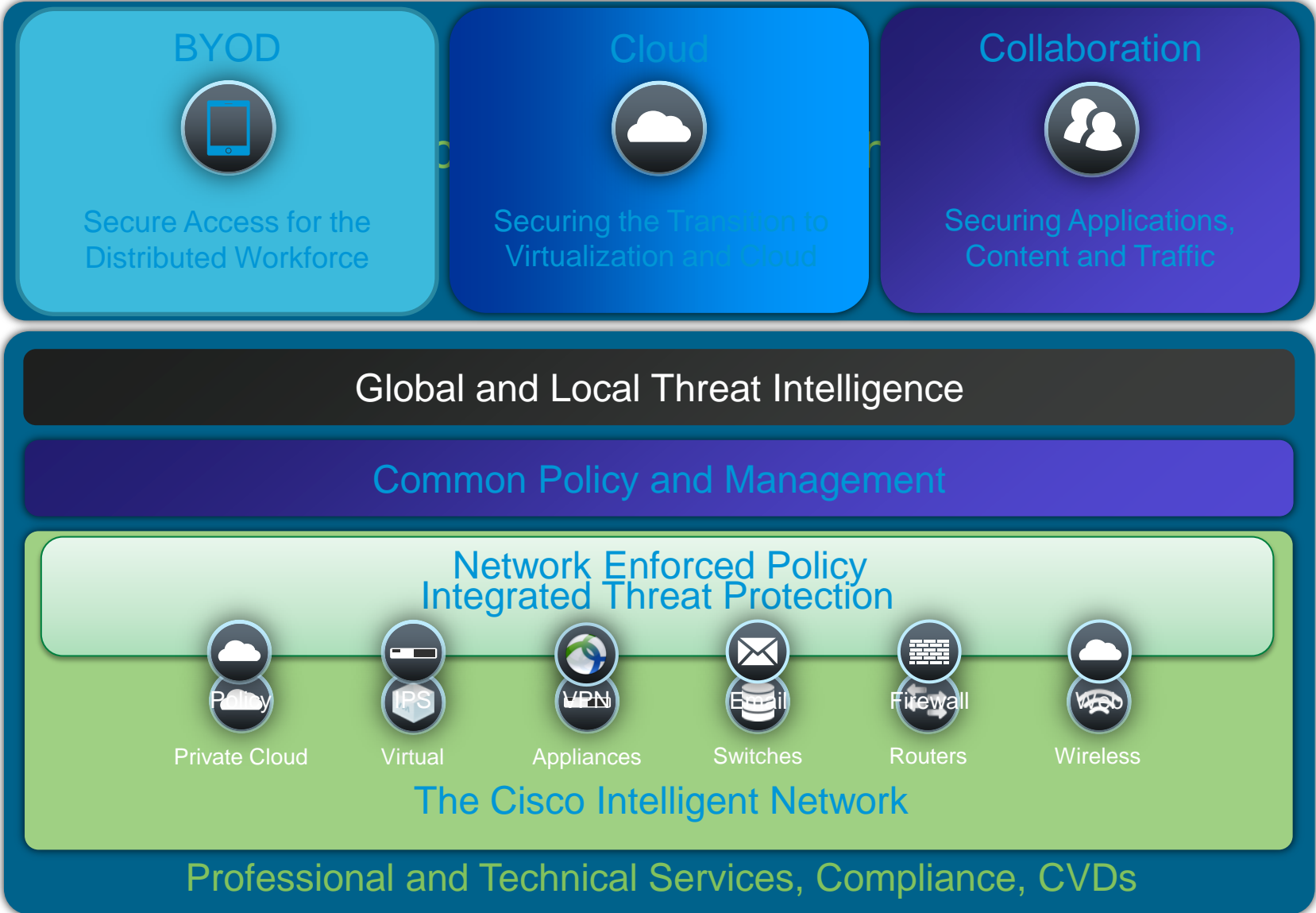


CONTEXT



CONTROL

SecureX: An **integrated** and **holistic** network-based **security architecture**

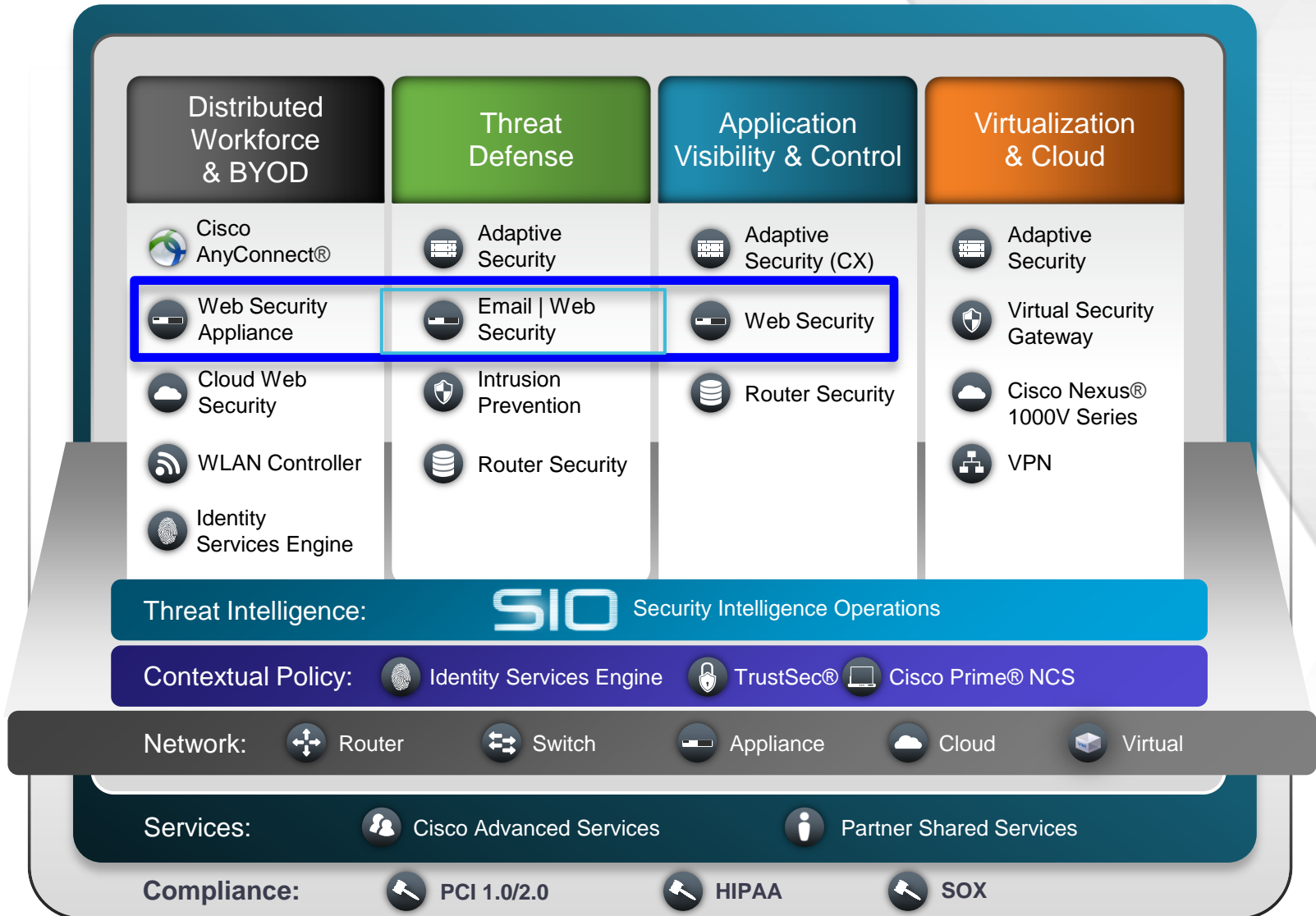


Embedding Security into the infrastructure

SecureX offers comprehensive **visibility** and scalable **control**



SecureX Solutions Framework



Security Intelligence Operations

Unmatched cloud-based global threat intelligence

24x7x365
OPERATIONS

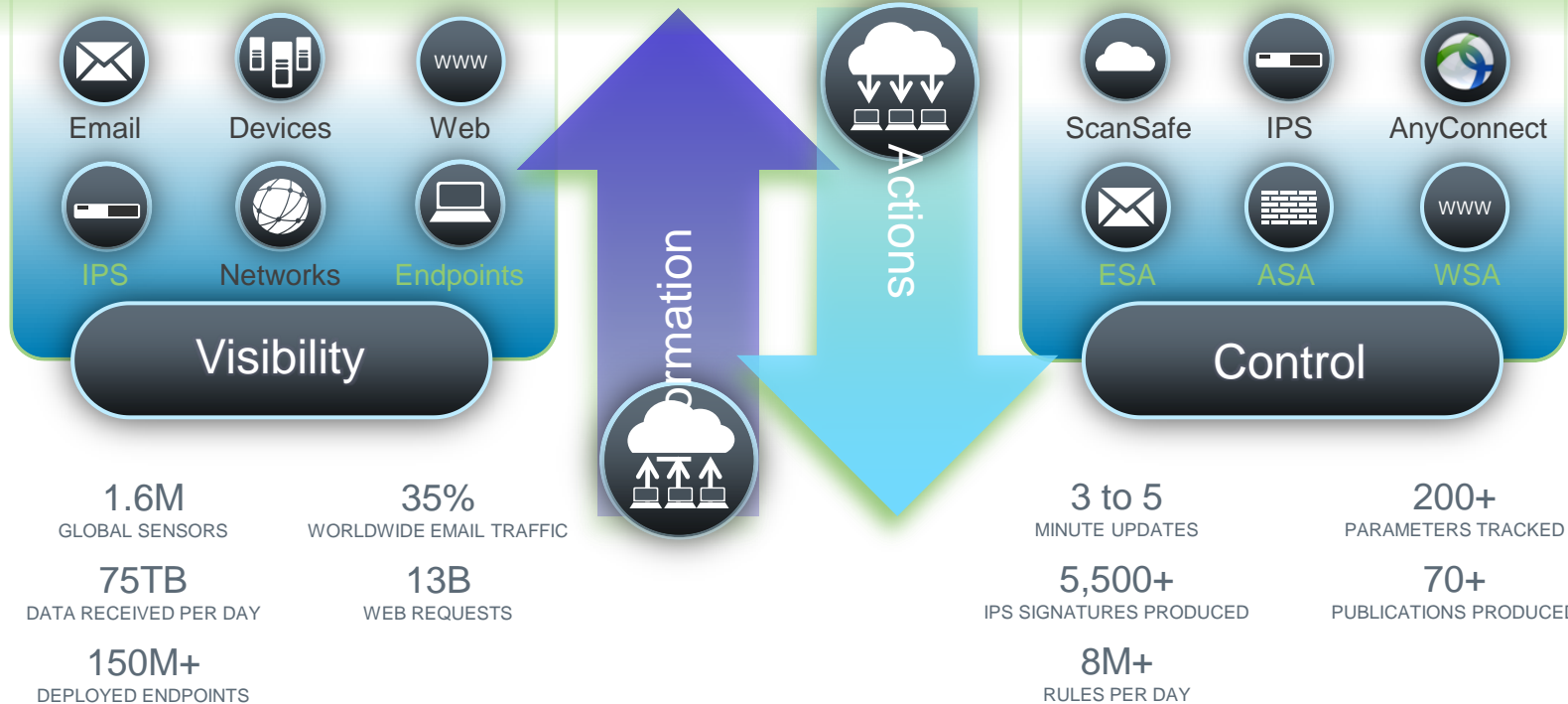
40+
LANGUAGES

\$100M+
SPENT IN DYNAMIC RESEARCH AND
DEVELOPMENT

600+
ENGINEERS, TECHNICIANS AND RESEARCHERS

80+
PH.D.S, CCIE, CISSP, MSCE

Cisco SIO



Cisco Email Security Products

Industry-leading, Best of Breed Email Protection at the Gateway

Cisco Email Security protects 50 percent of the Fortune 1000, more than 20 percent of the world's largest enterprises, and eight of the 10 largest ISPs – inbound and outbound



- Dedicated cloud infrastructure
- Cloud capacity assurance
- Cloud availability guarantee

CLOUD

- DLP and Encryption
- Targeted attack / APT defense with Cisco SIO
- Anti-Malware / Antivirus
- Outbreak Filter
- Mobile smartphone email encryption
- Anti-Spam
- Defense against emerging IPv6 threats

EMAIL SECURITY
FAMILY OF
PRODUCTS



- Appropriately sized to plug into your environment
- High performance
- Easy to install and manage

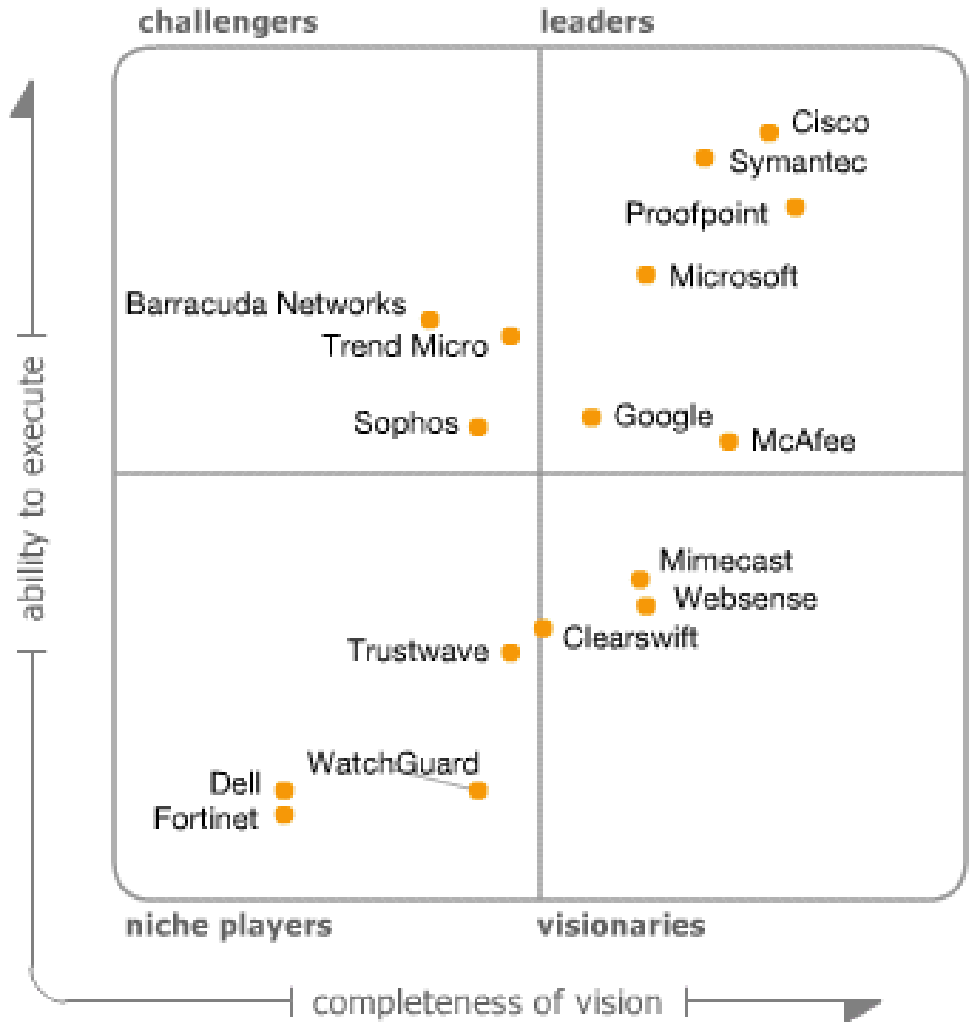
APPLIANCES

Gartner Magic Quadrant for Secure Email Gateway, 2012

The Magic Quadrant is copyrighted 2012 by Gartner, Inc. and is reused with permission. The Magic Quadrant is a graphical representation of a marketplace at and for a specific time period. It depicts Gartner's analysis of how certain vendors measure against criteria for that marketplace, as defined by Gartner. Gartner does not endorse any vendor product or service depicted in the Magic Quadrant, and does not advise technology users to select only those vendors placed in the "Leaders" quadrant. The Magic Quadrant is intended solely as a research tool, and is not meant to be a specific guide to action. Gartner disclaims all warranties, express or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

This Magic Quadrant graphic was published by Gartner, Inc. as part of a larger research note and should be evaluated in the context of the entire report. The Gartner report is available upon request from Cisco.

Source: *Magic Quadrant for Secure Email Gateways*, 15 August 2012 by Peter Firstbrook and Eric Ouellet
<http://www.gartner.com/reprints/cisco-v2-us-6?id=1-1BQXS7P&ct=120816&st=sb>



As of August 2012

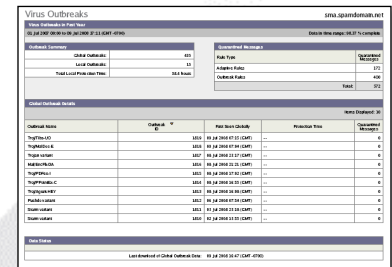
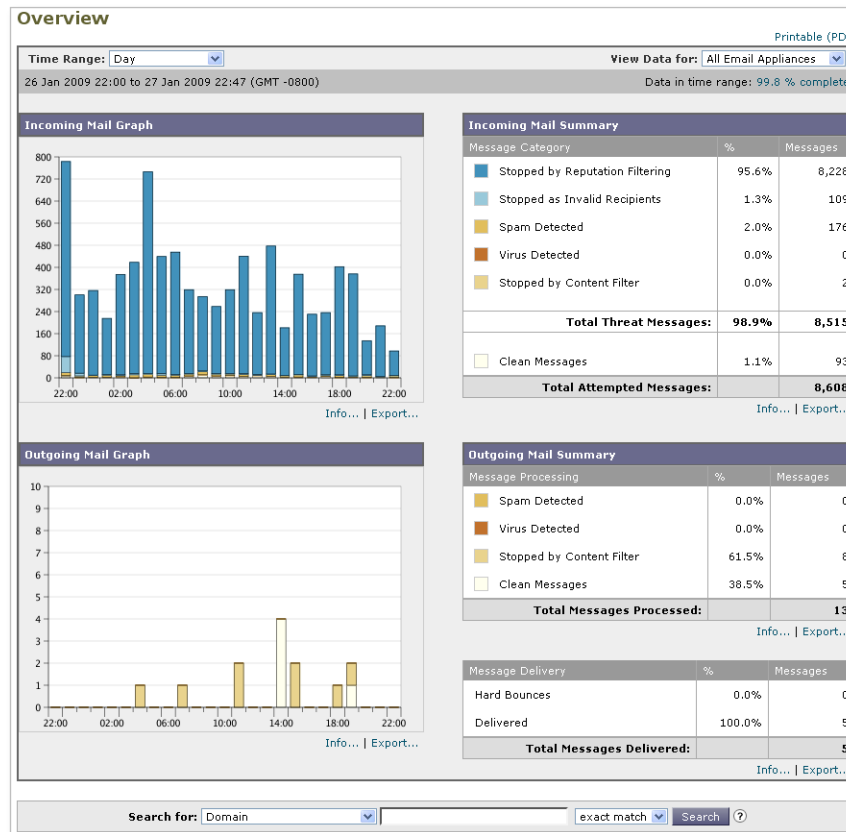
Cisco Security Management Appliance

Reporting and Message Tracking for Cisco Email and Web Security Appliances

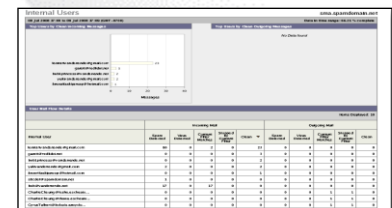
Centralized policy and runtime data in a single management interface, providing a central platform for all reporting and auditing for Cisco Email and Web Security Appliances

CONSOLIDATED AND CUSTOM REPORTS

MULTIPLE DATA POINTS



Email Volumes
Spam Counters
Policy Violations
Virus Reports
Outgoing Email Data
Reputation Service
System Health View
Quarantines



Email & Web Security Form Factors

Flexible deployment from appliance to cloud – Leadership with Choice

Appliance

Award-Winning
Technology



Cloud

Dedicated
Software-as-a-
Service (SaaS)
Instances



Virtual

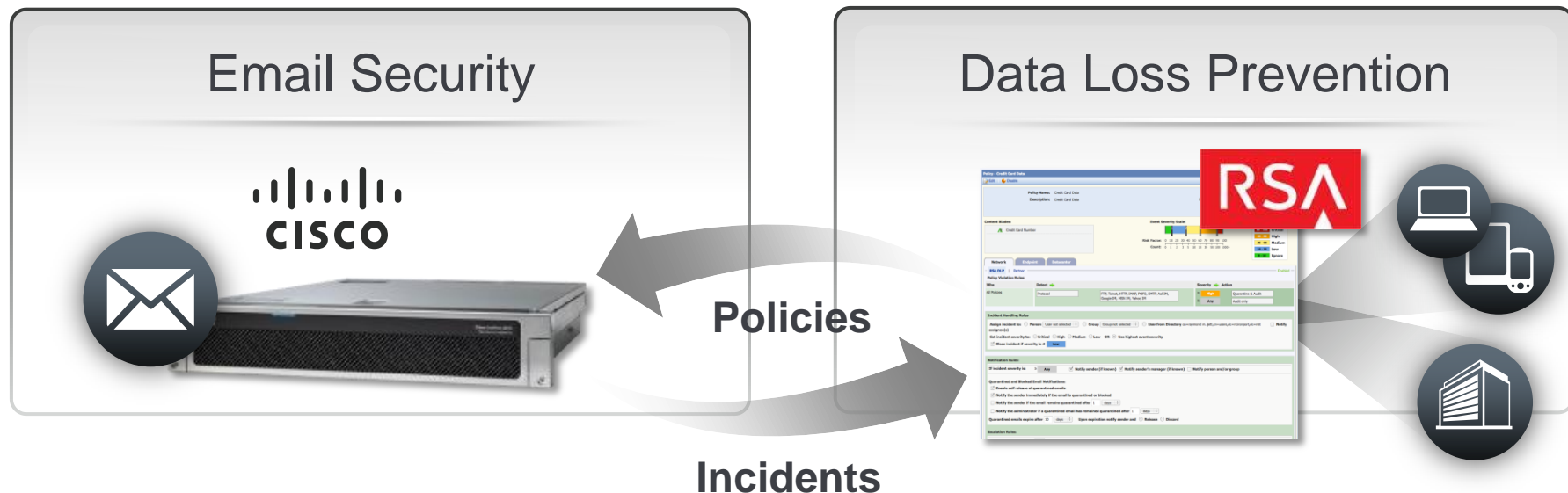
Virtual Appliances
(on Vmware platform)



Backed by Service Level Agreements


DLP/Compliance

Part of a comprehensive DLP solution with RSA – Accurate, Easy, Extensible



- Email Uptime
- Threat Prevention
- Policy Enforcement

- Risk Policy Definition
- Incident Management
- Compliance



End-to-End Email Encryption

Cisco Registered Envelope Service turnkey email encryption

- ✓ The only cloud-based encryption key server flexible enough to meet the evolving secure-communications requirements of businesses today
- ✓ Hosted key service
- ✓ Uses federated identity gateway
- ✓ Push technology with intuitive policy management
- ✓ We make encryption easy for end users – a key adoption barrier
- ✓ Supports SAML for federated identity
- ✓ Technology independent – use your inbox or mail server of choice

Encryption key is stored in the cloud



Integrated MTA to MTA TLS enforced security with advanced end to end encryption to meet evolving customer requirements

Cisco Business Class Email

Mobile Encryption on Smartphones – Send & Open Secure Email

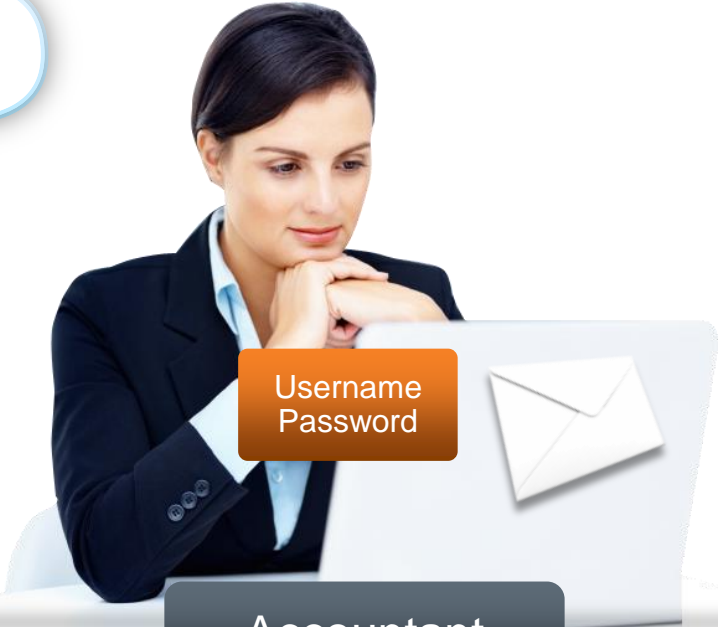
For iPhone and Android



Encrypting the email

```
F4pQT5xYLj30TUDR3f  
Qrr79uMXCGt83ph9AS  
KJDL5k6rILTOIU46MW  
OS2cFXU8vPsGG6sYR
```

Executive



Accountant

Cisco Business Class Email

Forward/Reply Email Control



Cisco Business Class Email

Read Email Receipt



Cisco Business Class Email

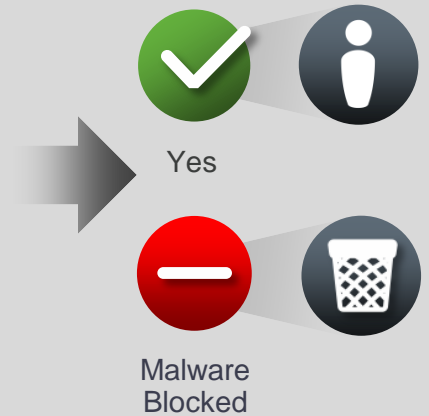
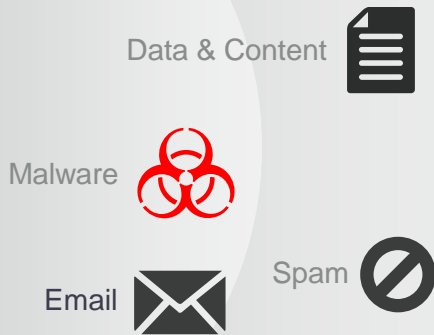
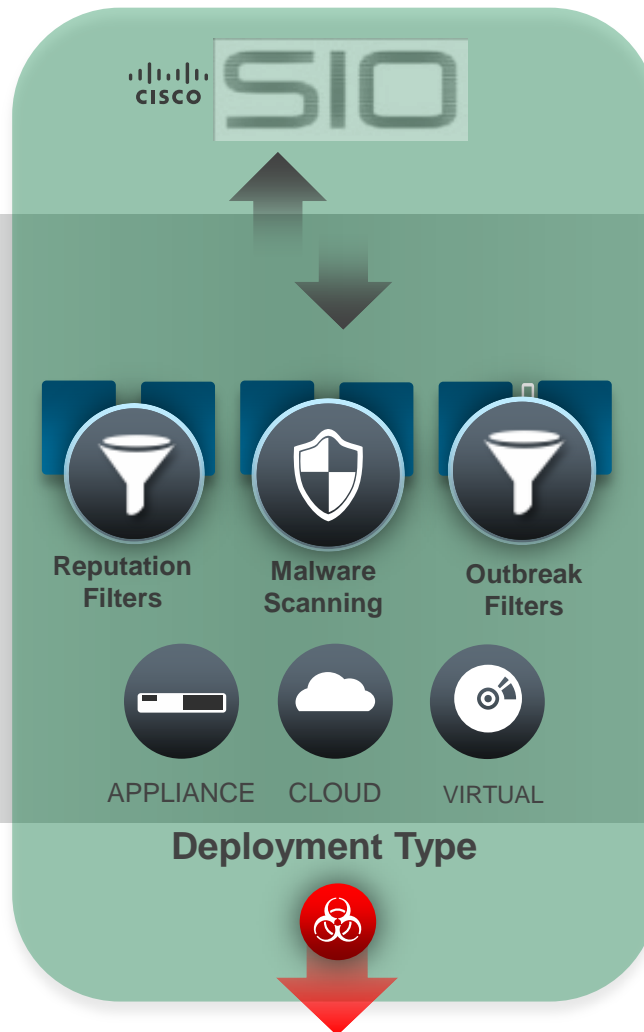
Email Recall & Expiration



Cisco Security Intelligence Operations (SIO)

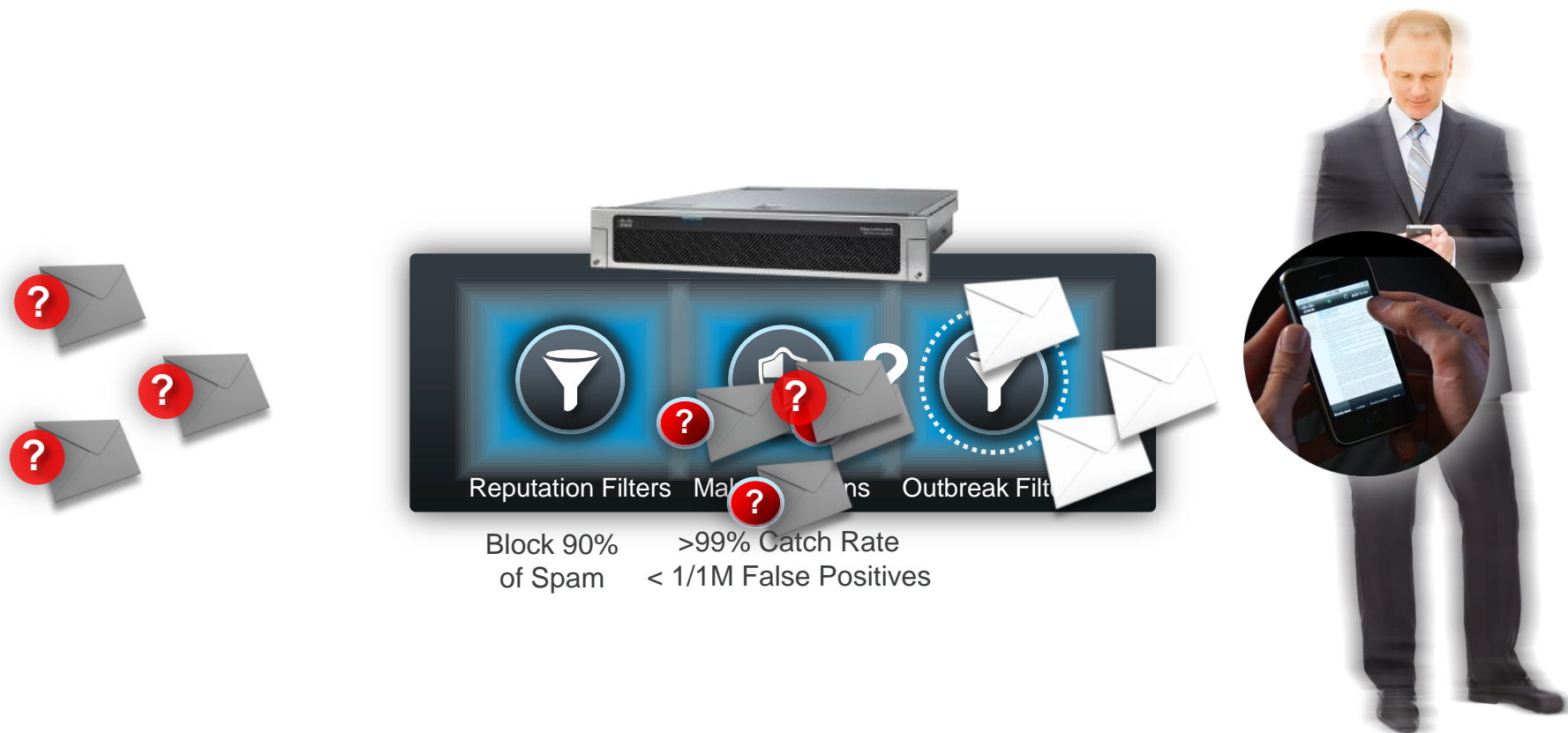
Leverage Cisco Security Intelligence Operations Zero-Day Architecture

- 35% of the world's email traffic
- 75 TB of web data per day
- 13 billion web requests
- 1.6 million deployed devices
- More than 150 million endpoints

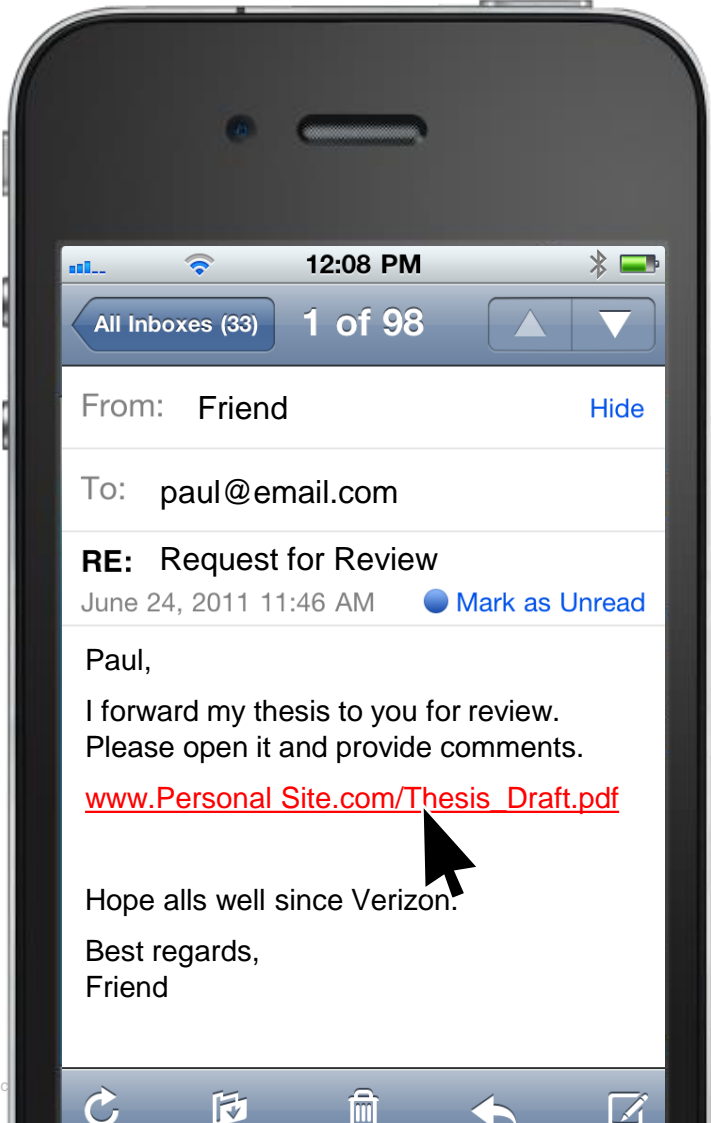


Targeted Attack Prevention Architecture

Cisco Email Security blocks with reputation, malware and outbreak filters



Outbreak Filters in Action



Before

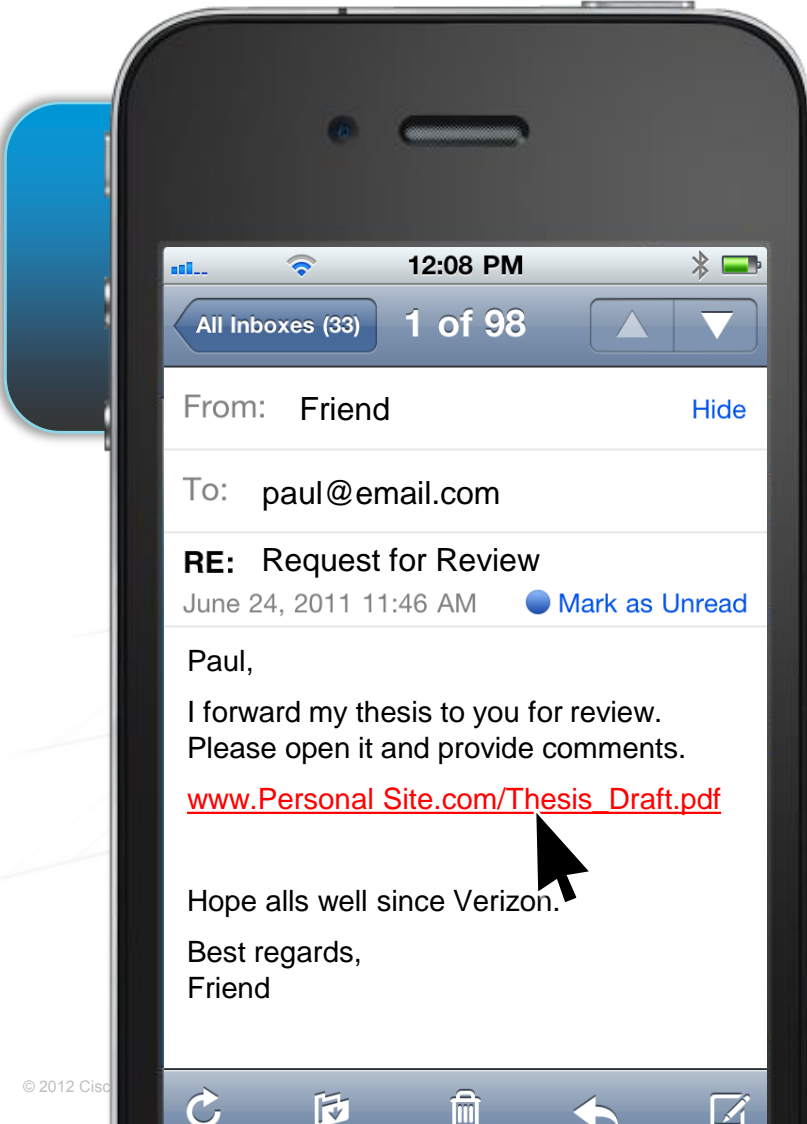
<http://www.threatlink.com/>

After

<http://secure-web.cisco.com/auth=X&URL=www.threatlink.com>



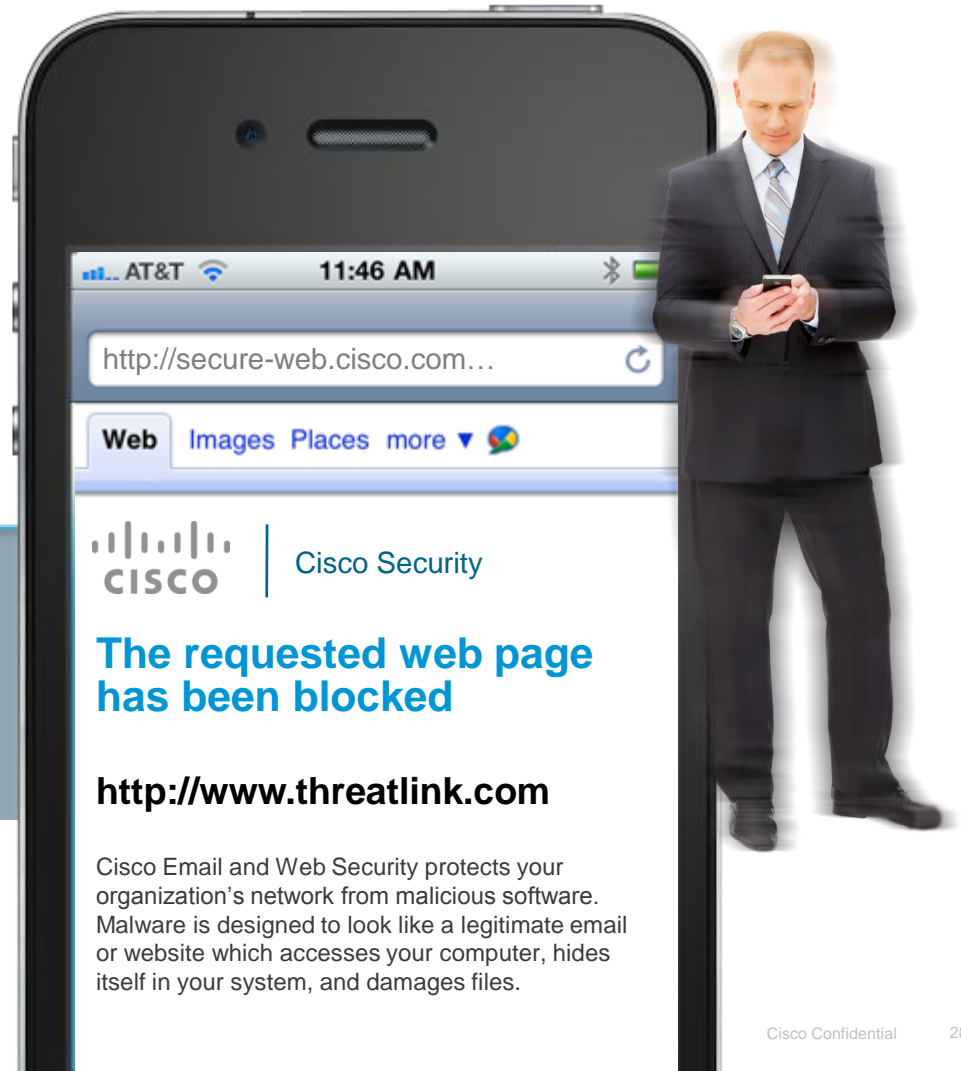
Cisco SIO - Cloud Security Enforcement



A blue rectangular overlay with rounded corners is positioned to the right of the smartphone. It features three circular icons on the left: a magnifying glass, a server rack, and a binary code icon. To the right of these icons, the following text is displayed: 'Identified: Targeted Attack', 'Content: Malware Payload', 'Vector: Email', and 'Action: Blocked'. The background of the overlay has a white grid pattern that recedes into the distance.

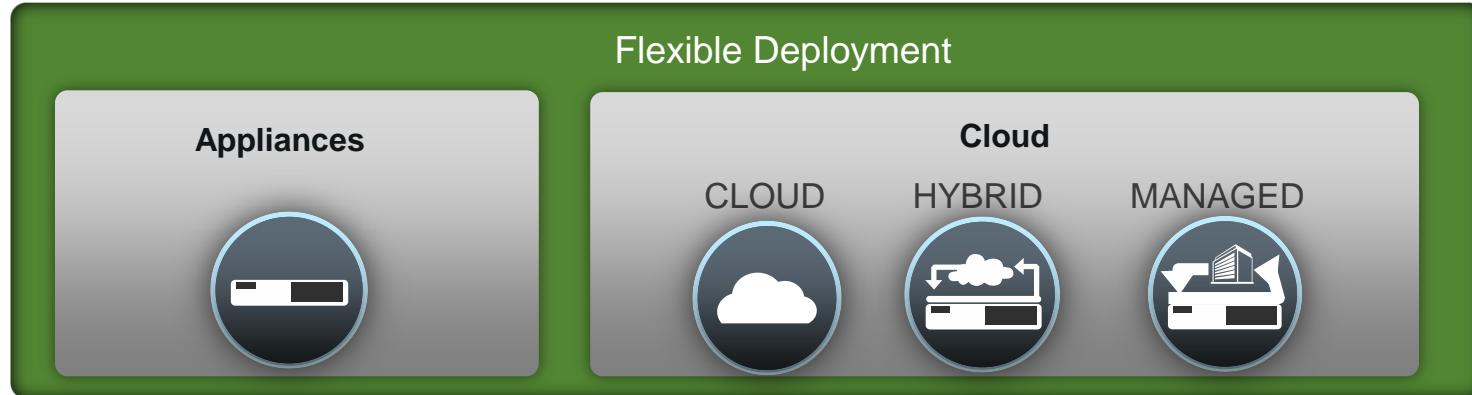
Cisco Outbreak Filters Defends against Targeted Attacks

**Malware
Payload Blocked**



How to buy

Flexible deployment options with software bundles and a la carte options



right size to fit your needs

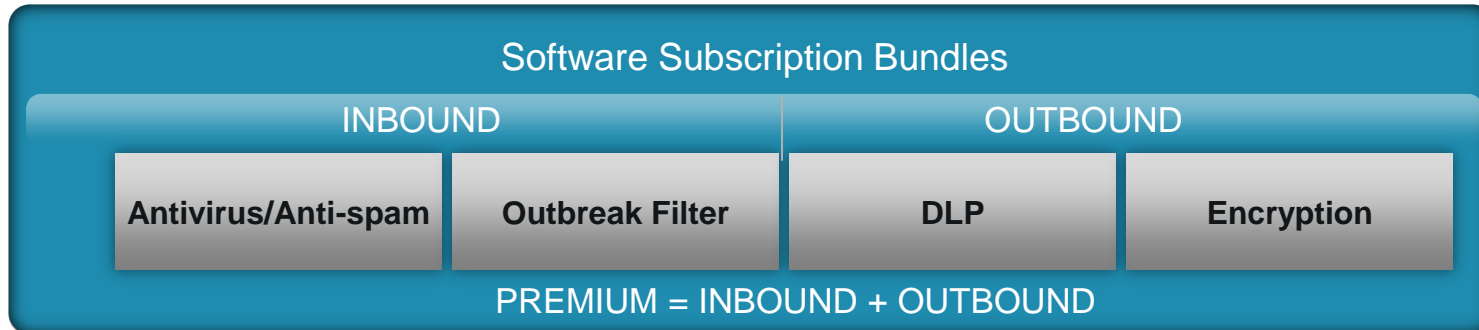
X1070 C670 C370 C170

1, 3, 5 yr – starting at 100 mailboxes

select number of mailboxes, expand as you grow

500-999 to 100,000+

monthly, quarterly, annual – starting at 500 mailboxes



A La Carte Software

Cloudmark Anti-Spam, Image Analyzer, McAfee Anti-Virus, Intelligent Multi-Scan

Service and Support



Summary

- Email threats have evolved beyond blanket attacks
- Targeted attacks / APTs, and new vulnerabilities introduced by BYOD
- Avoid costly downtime, system compromise and compliance breach
- Industry-leading protection of 50 percent of the Fortune 1000, more than 20 percent of the world's largest enterprises, and eight of the 10 largest ISPs
- Outbound Protection – comprehensive email DLP, BCE and end-to-end CRES Encryption
- Inbound Defense – Outbreak Filters, Leveraging SIO, Anti-Malware, Anti-Virus, Anti-Spam