

# Americas PIW

How continued innovation helped Cloud Mailbox outgrow its name

Sérgio Pinto – TME Secure Email

November 2022



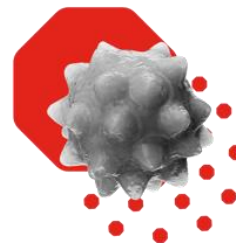
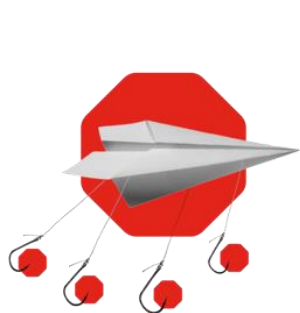
# Agenda



- ▶ What is Email Threat Defense
- ▶ Deployment
- ▶ Efficacy and New Detectors
- ▶ Reporting and Dashboards
- ▶ APP EoS and New ETD Connector



Email is **still** the #1 threat vector



# Cisco Secure Email | Secure your business

91%

Attacks

Begin with  
Email

\* industry phishing report

\$2.5

Billion

Losses from  
Phishing, BEC,  
EAC, Spoofing in  
2021

\* FBI 2021 IC3 Report

3,729

Businesses

Halted by  
Ransomware  
in 2021

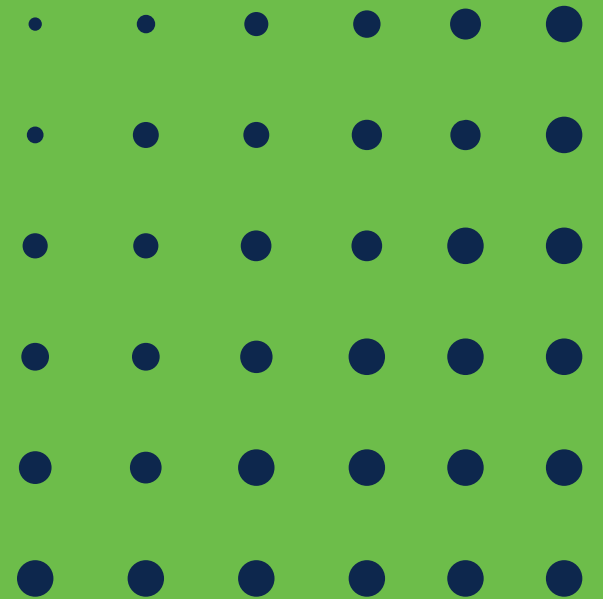
\* FBI 2021 IC3 Report



SECURE

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# Email Threat Defense



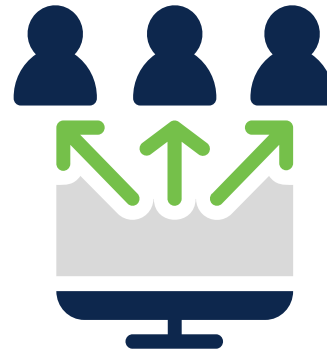
# Secure Email deployment models

Flexible to fit your environment



On-Premise

Hardware or Virtual  
Machines



Hybrid

Best of both worlds



Cloud

Agile, Scalable, Secure

# Cloud Mailbox → Cisco Secure Email Threat Defense

## Why Change?

- Cloud Mailbox name provided impression we host mailboxes
- Cloud Mailbox as evolved to advanced threat detection and more support for threat response
- Email Threat Defense aligned to long term strategy of product line
- Name Change on Oct 25
- No Changes to ordering or PIDs



# Email Threat Defense

Cloud-native email security platform that focuses on



## Visibility

- ✓ All messages
- ✓ Search / Triage
- ✓ Open APIs



## Simplicity

- ✓ Deployment
- ✓ Configuration
- ✓ Management

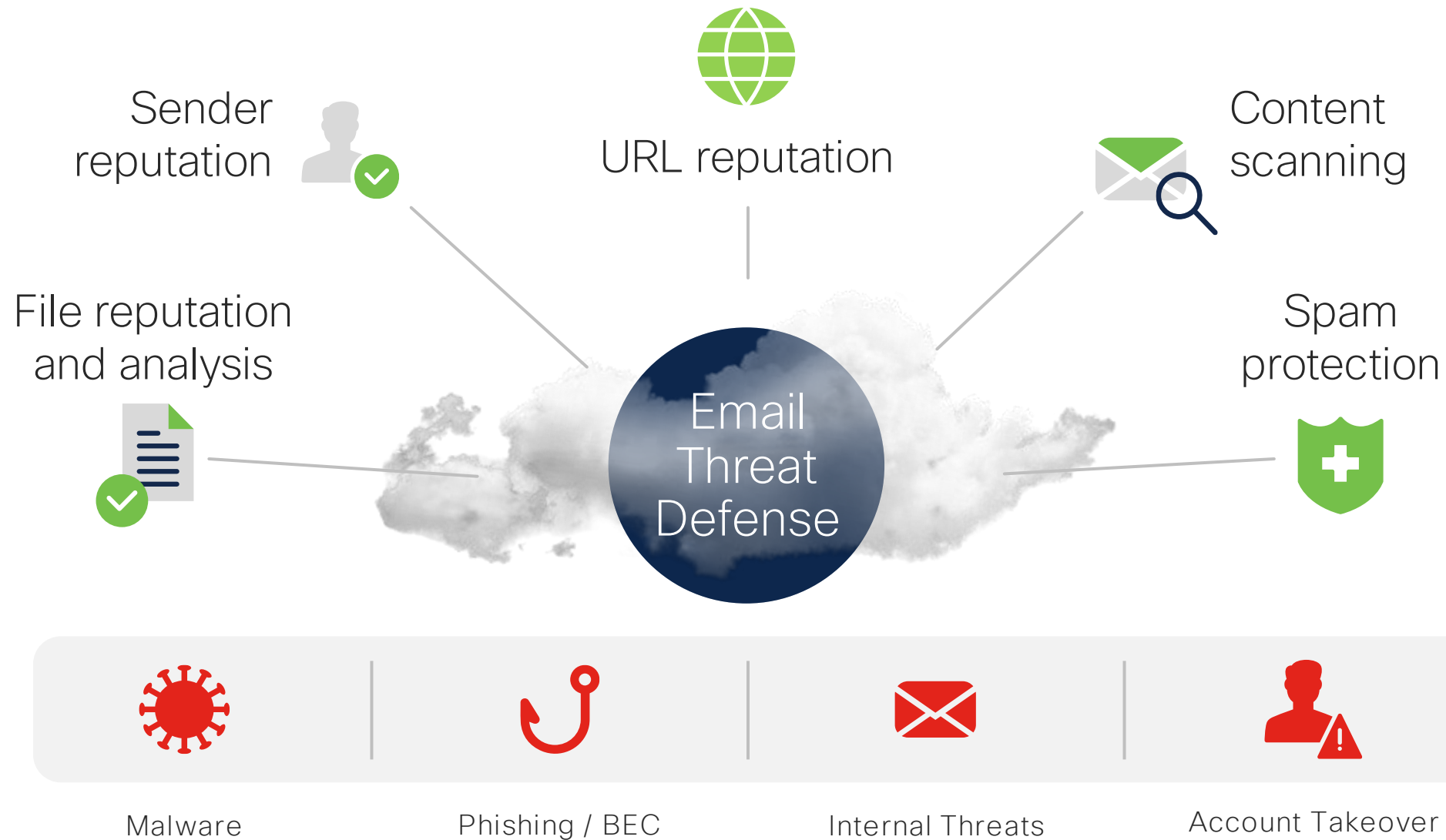


## Integration

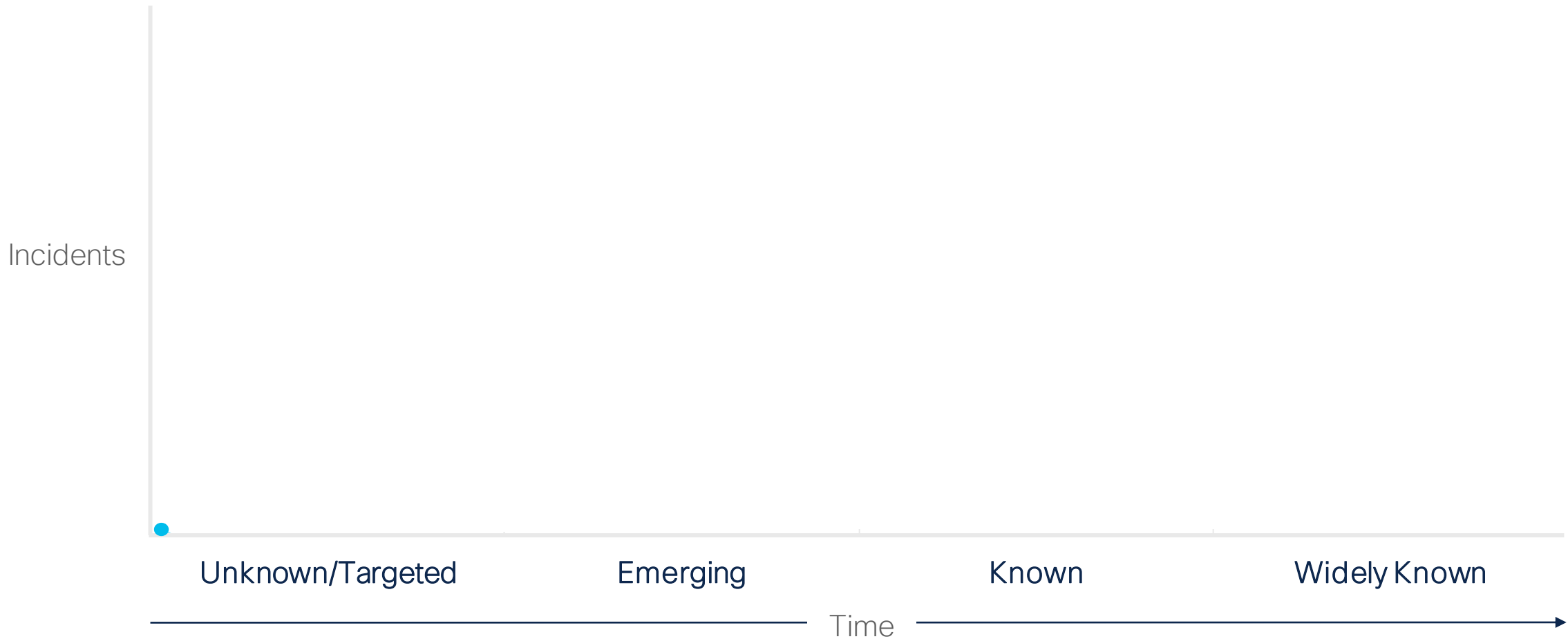
- ✓ Talos Intelligence
- ✓ MS APIs
- ✓ Cisco Threat Response



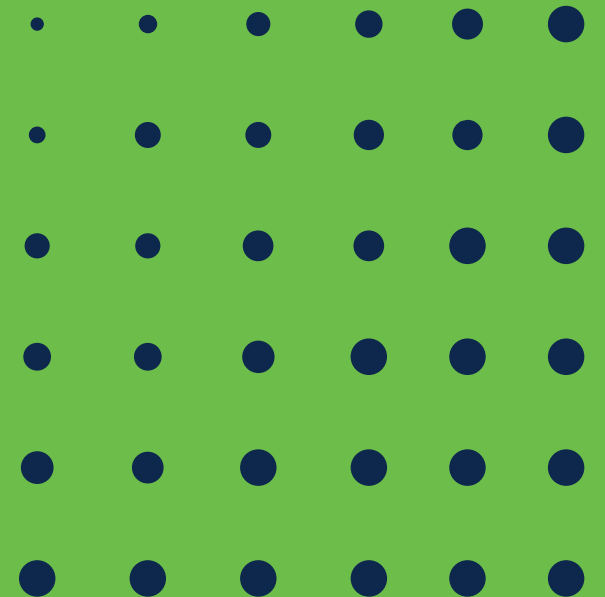
# ETD: Comprehensive Attack Protection



# Completes Coverage of advanced threat life cycle

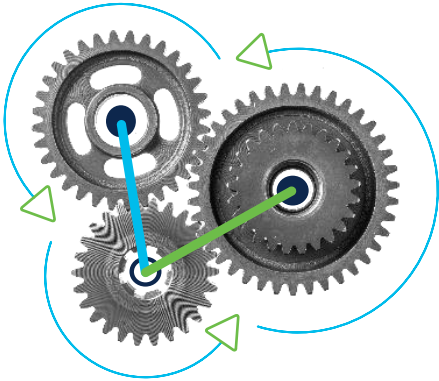


# Deploying ETD

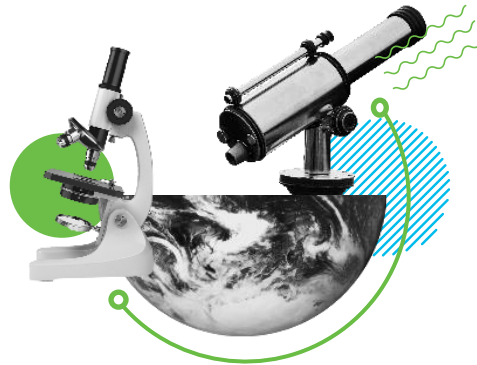


# Email Threat Defense: Easy to Deploy

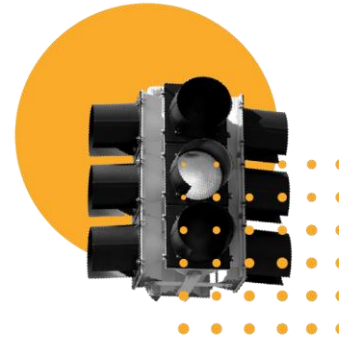
## Two-Step deployment



## Instant Tracking & Reporting



## No Risk to mail delivery



## Highlights

- ✓ Fully Functional in 5 mins
- ✓ No Operational Risk
- ✓ No Changes to mail flow or DNS
- ✓ Track all messages, including Internal

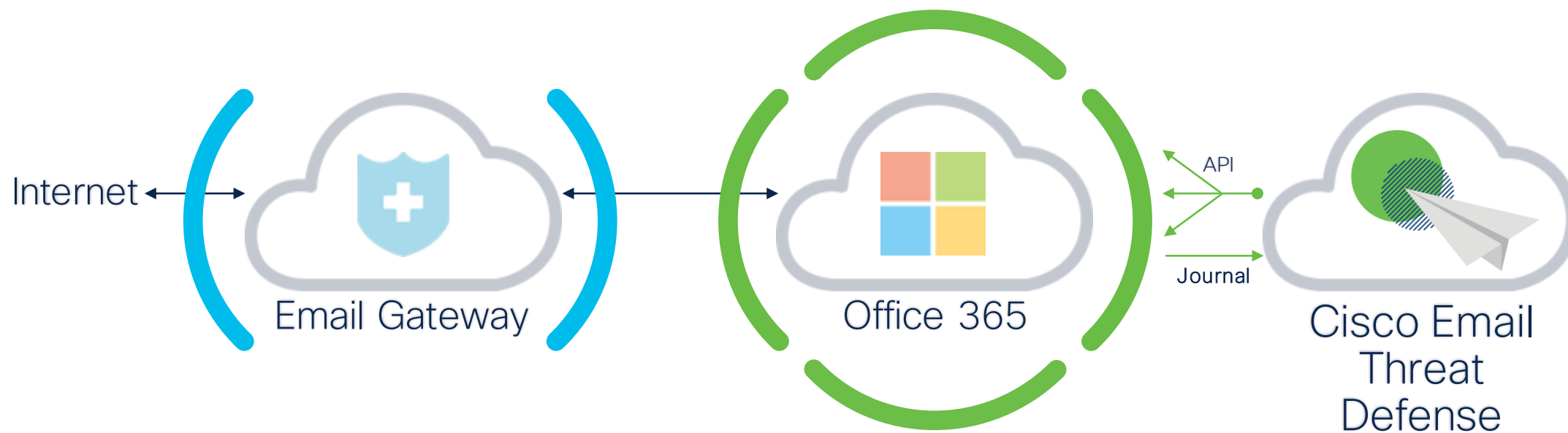
# Completes Visibility & Protection for all messages

## Traditional Email Gateway

Only sees **inbound** and **outbound** messages that cross the perimeter – **excludes internal**

## Cisco Email Threat Defense

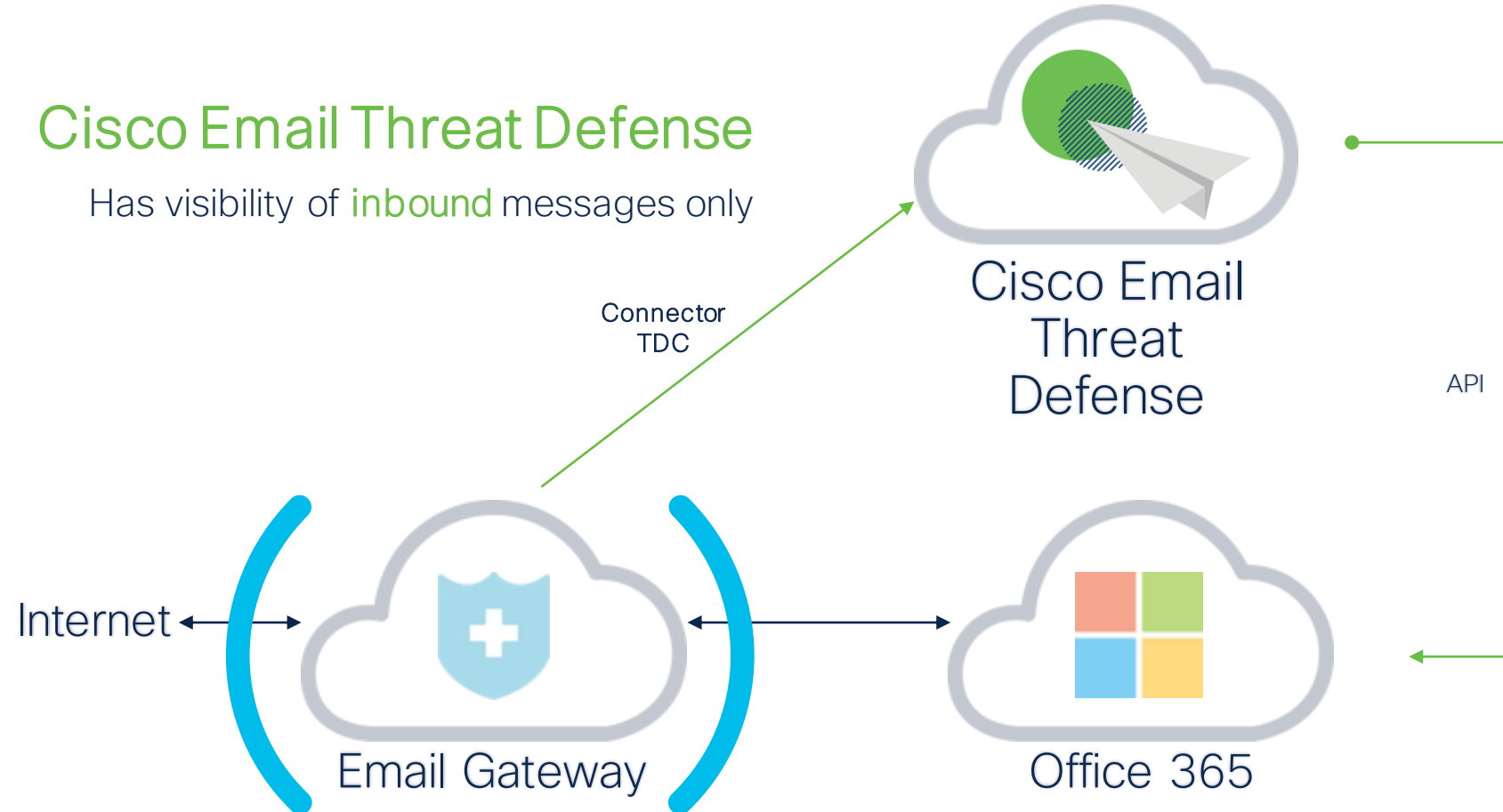
Has complete visibility of **all messages**, including **internal**, in addition to **inbound** and **outbound** messages



# Completes Visibility & Protection for all messages

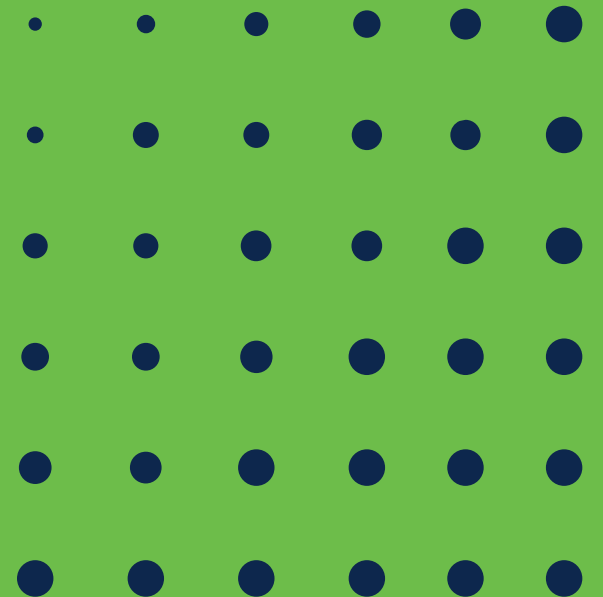
## Cisco Email Threat Defense

Has visibility of **inbound** messages only

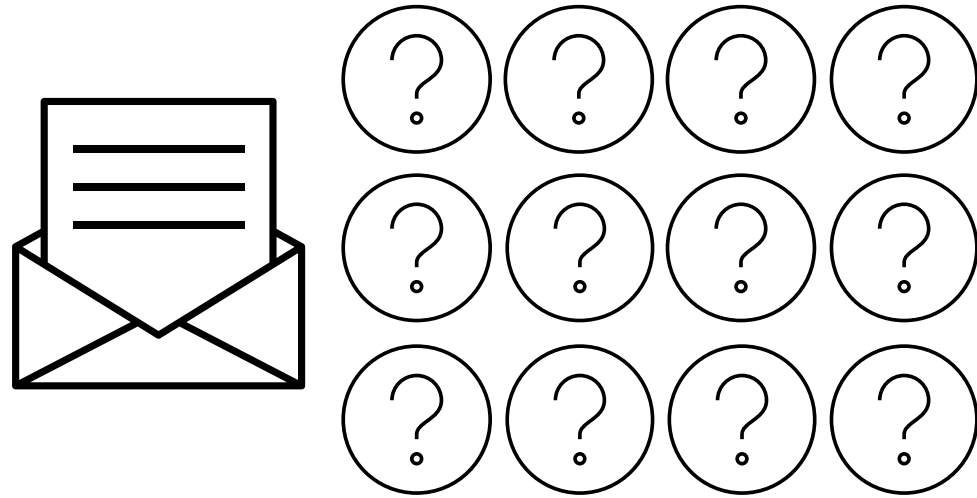


# Efficacy & Detectors

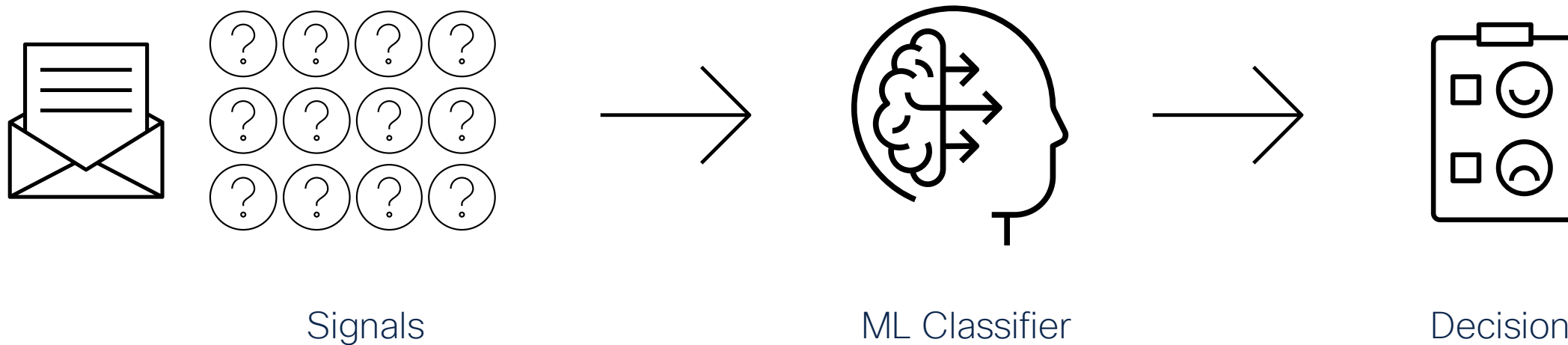
## How does it work?



Each email is checked  
for a variety of  
independent signals



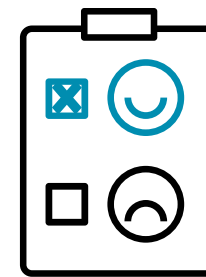
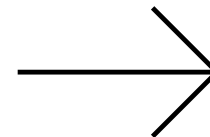
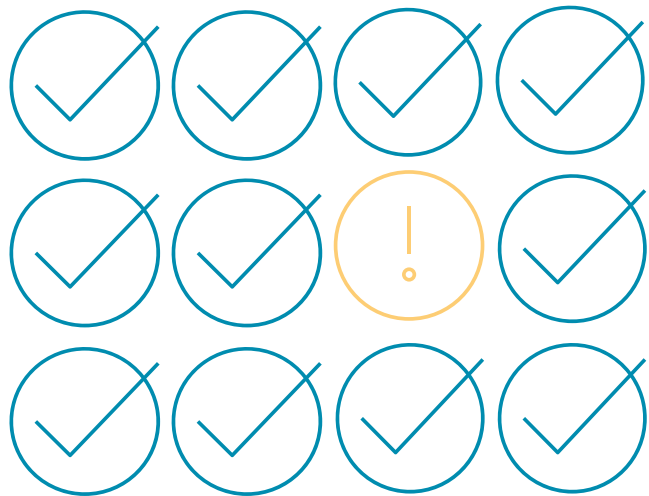
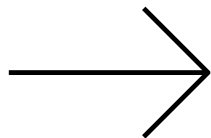




The final verdict is then given  
by aggregating the signals



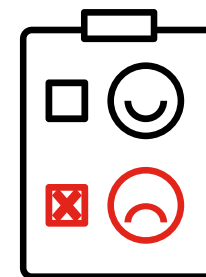
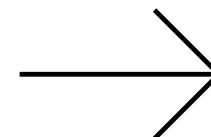
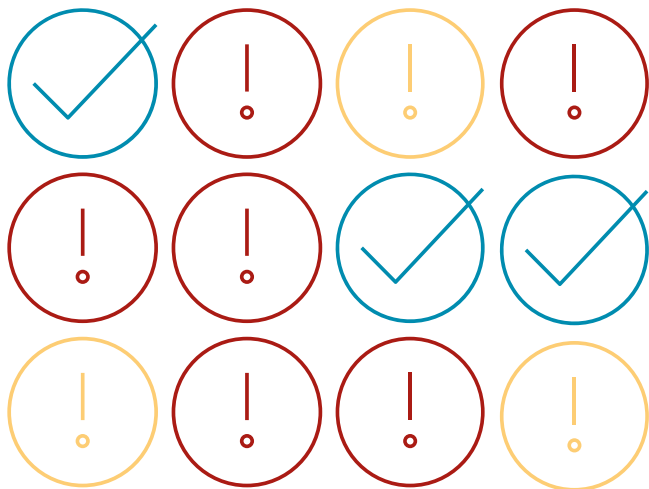
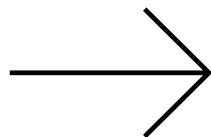
benign email



decision: **pass**



phishing email

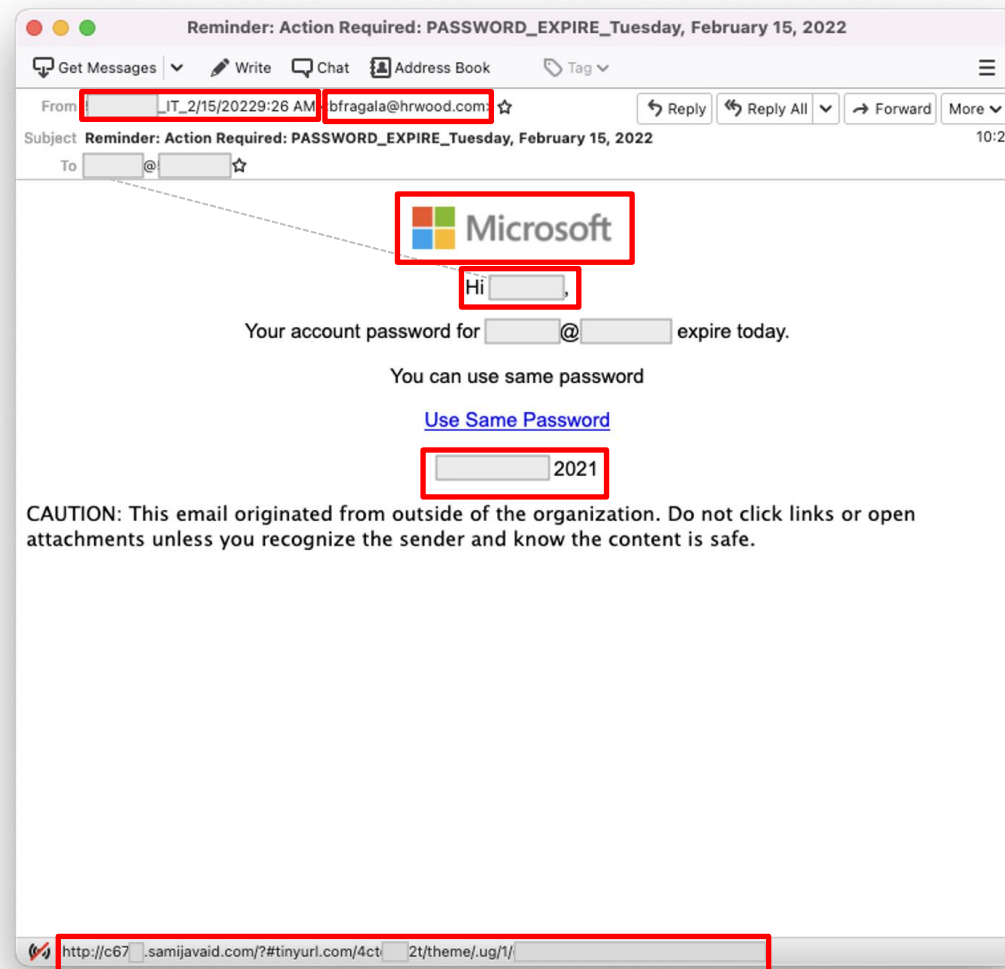


decision: **block**

Sender text is unusual !

Greets person by username !

Link contains suspicious patterns !



Sender domain has low reputation !

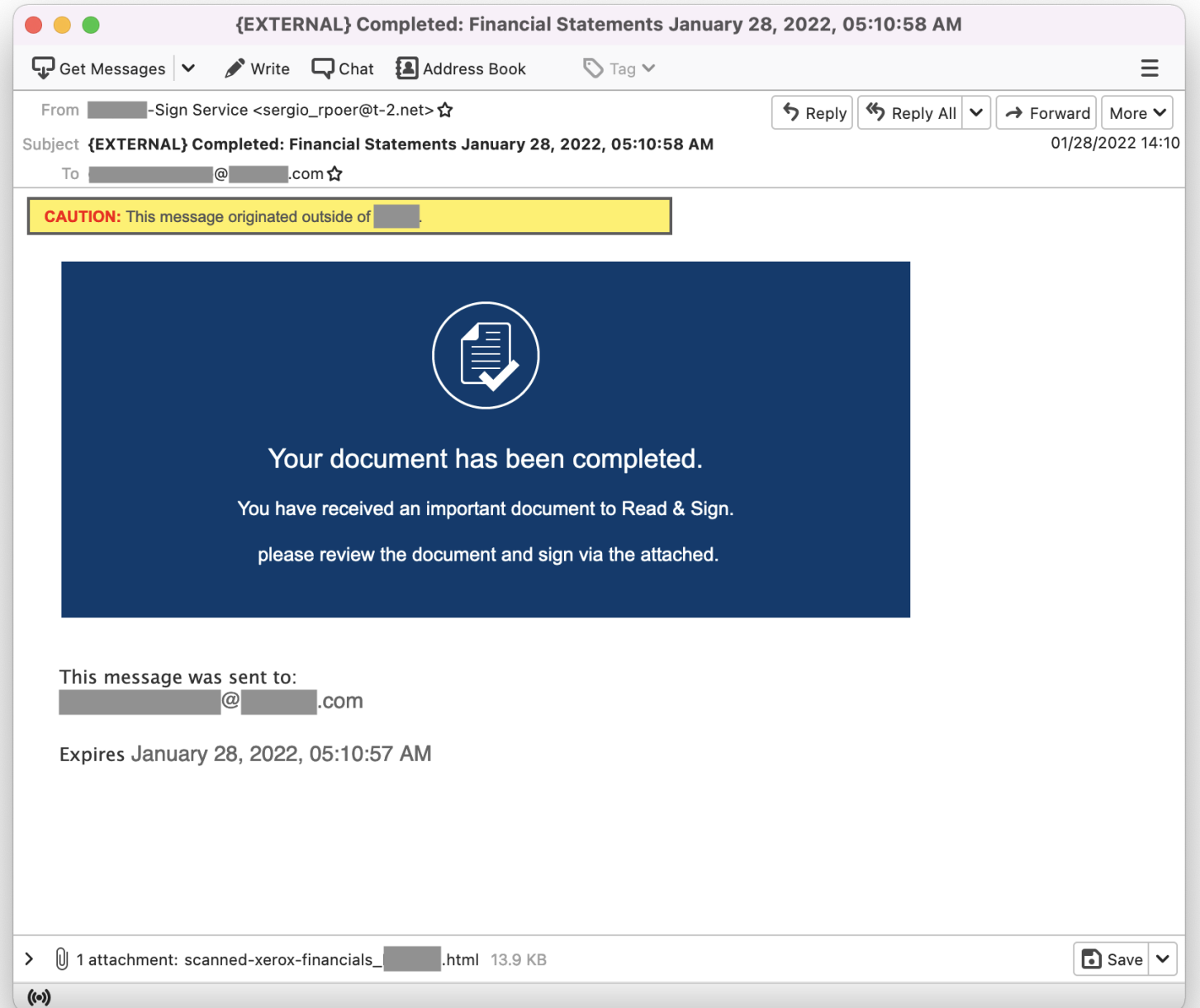
Impersonates Microsoft !

Impersonates the recipient company !



Brand  
impersonation

Impersonates  
DocuSign

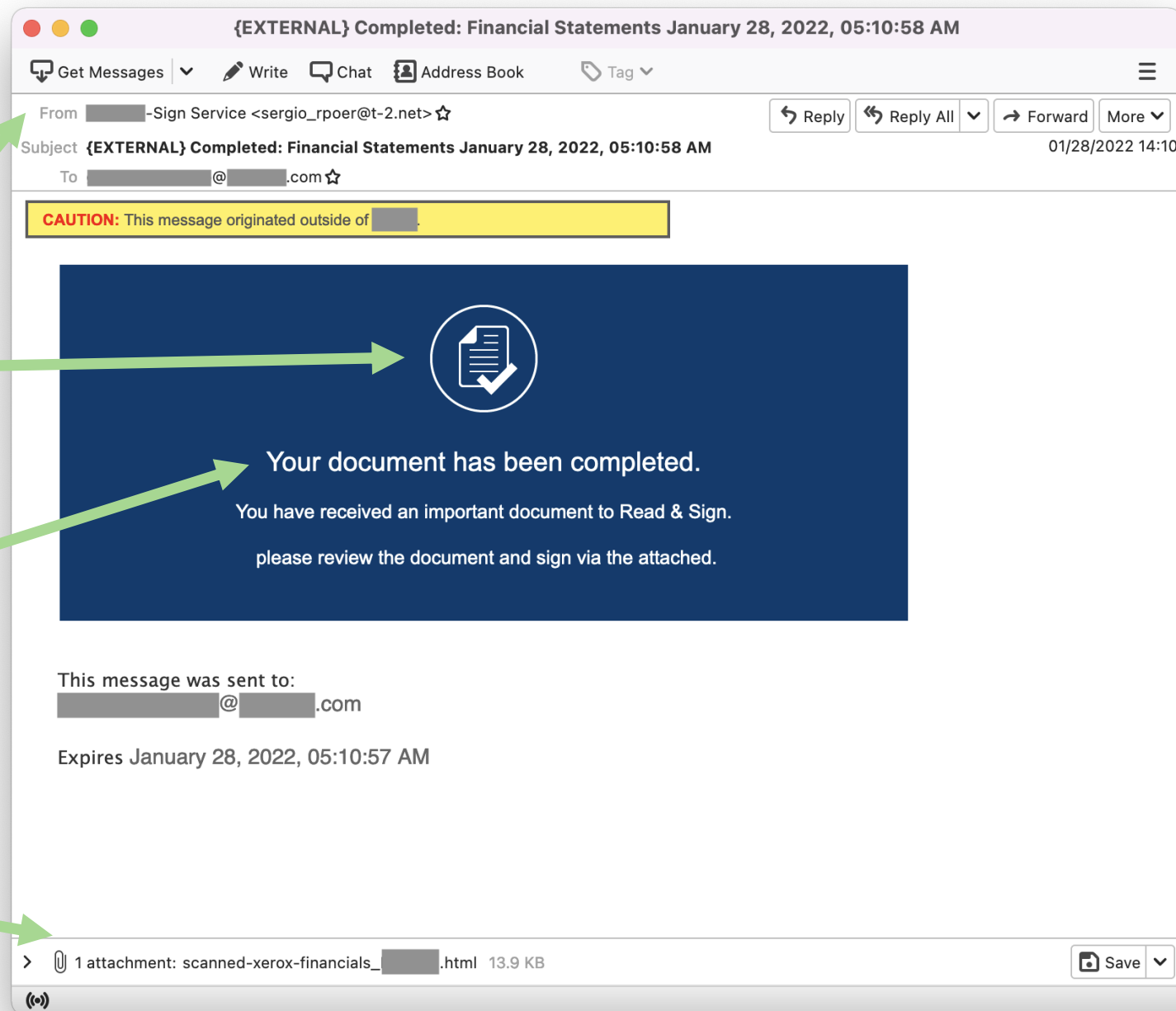


 Brand impersonation

Detection of DocuSign logo without a DocuSign domain

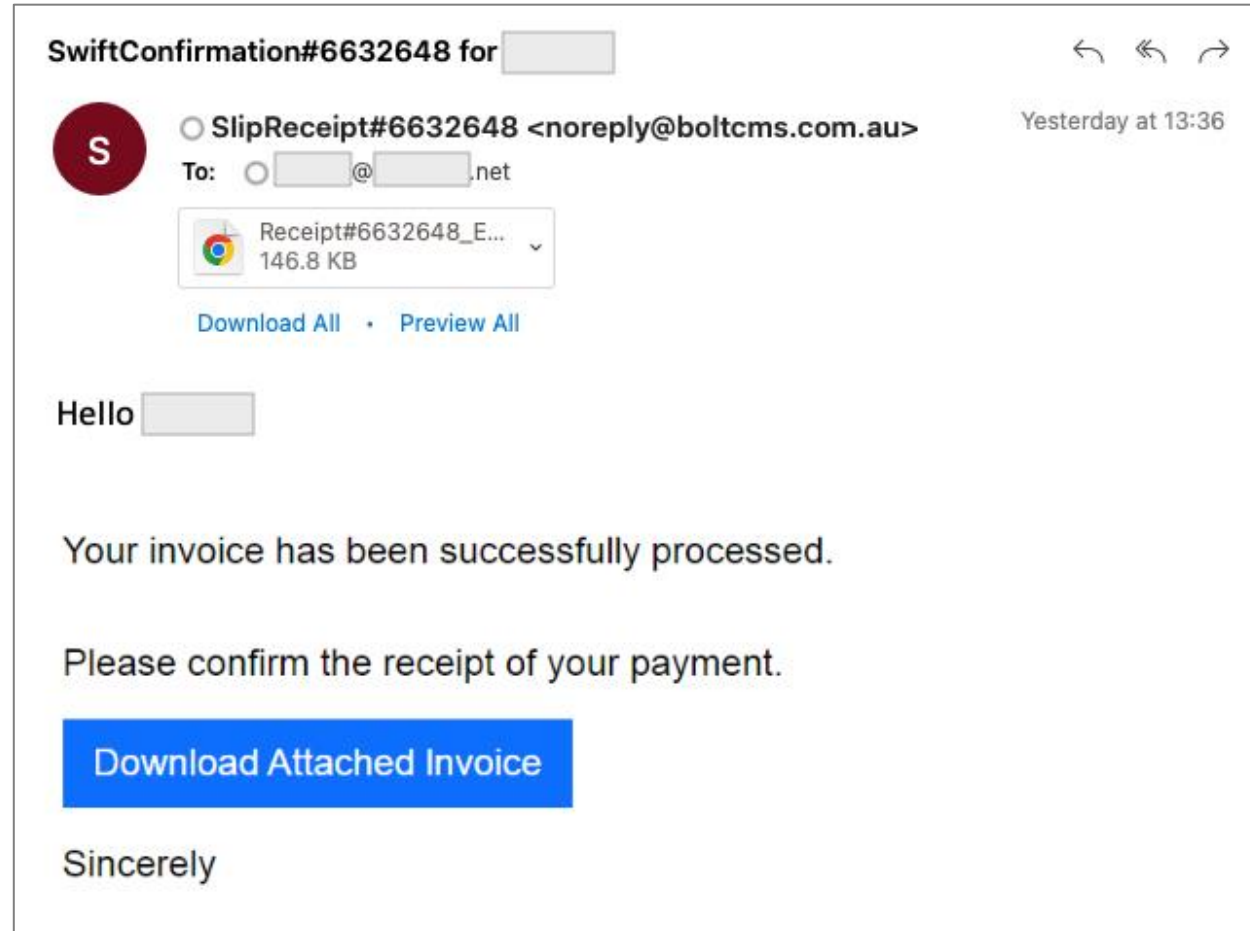
Semantic intent understanding

HTML attachment unlike what DocuSign usually sends



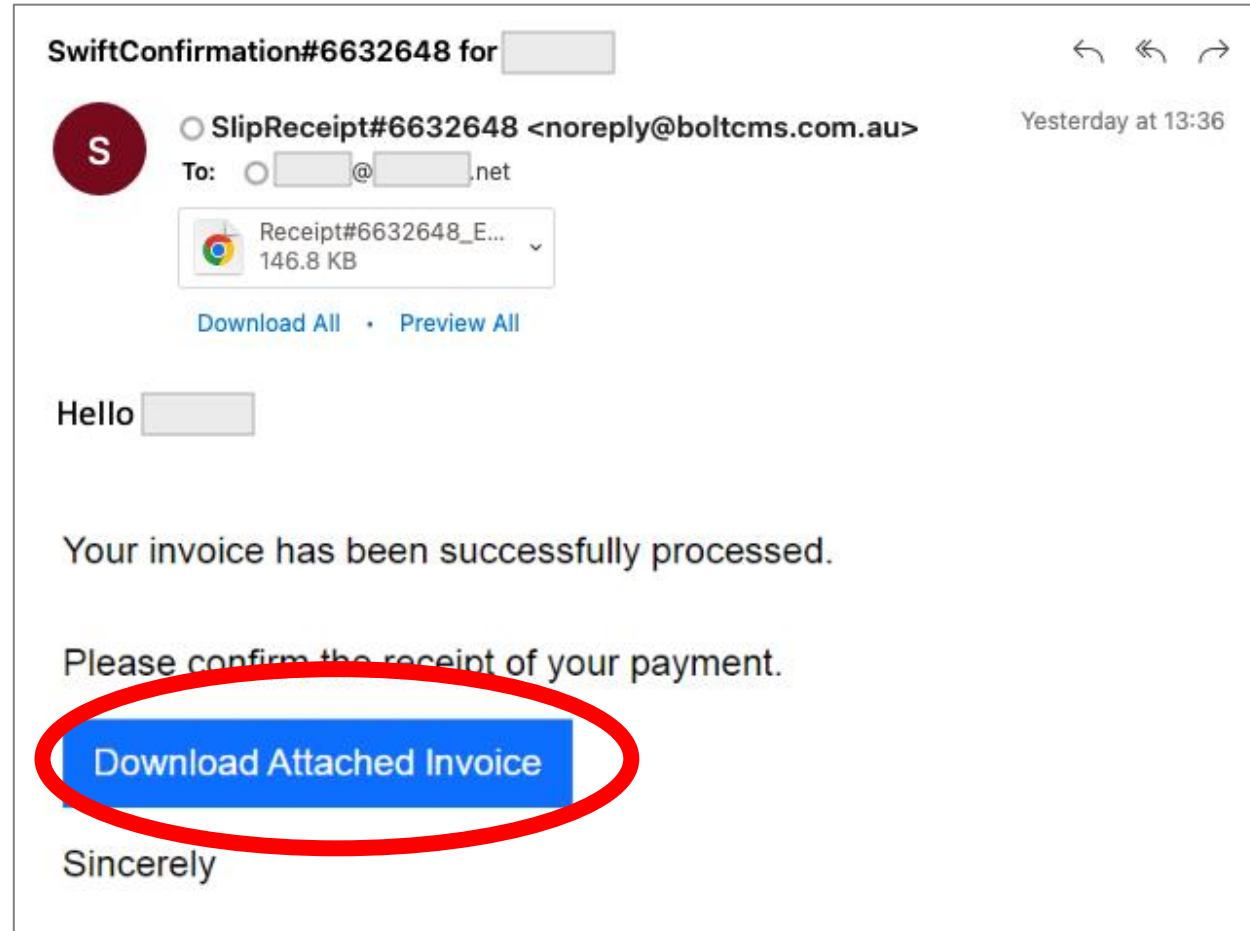


## Call-to-Action



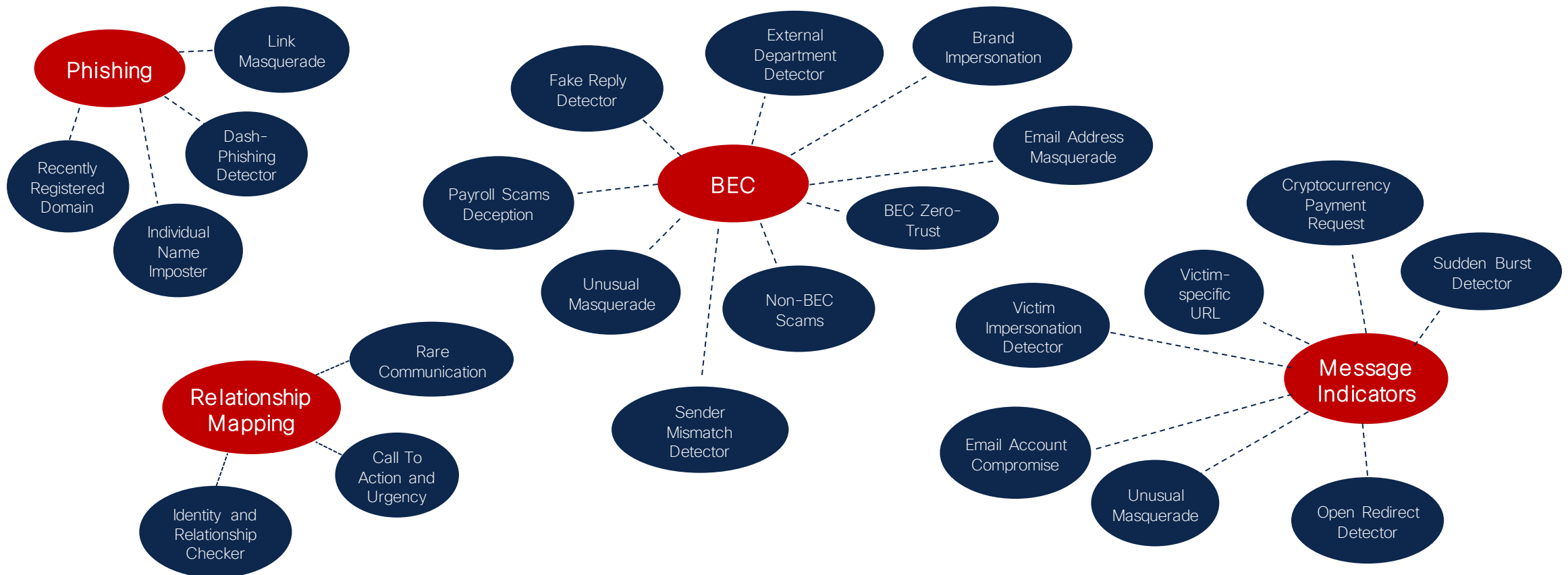


## Call-to-Action



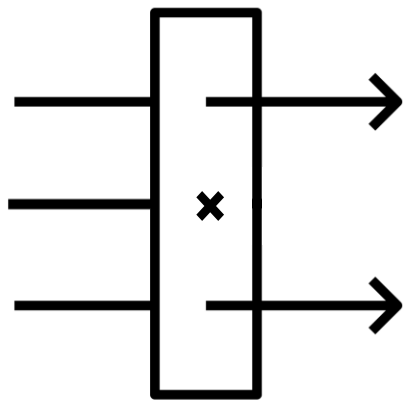
# Layering Detections using Machine Learning

The creation of *mini-engines* or *detectors* that identify techniques and behaviors using ML and NLP. The combination of detectors reveal the *intent* of the message.



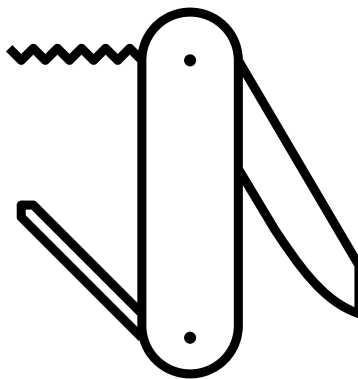


# Why behavioral detection works in email security



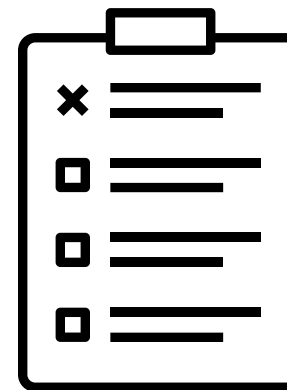
## Precise

Blocks phishing attempts,  
yet allow legitimate emails



## Evolutionary

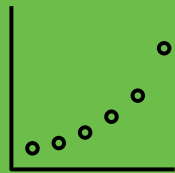
Catches ever-changing  
variations of attack patterns



## Interpretable

Tells you why  
an email was flagged

# Impactful reporting



# Threat Data Today

## Indicators of Compromise

Server IP: 148.221.56.4

Feedex.com

Reply To:

Support@wellsfargo.sdf.co

SHA: m

bf407c05c8c8434550b9e2c54a0e4a7078e8fce91b5b80dc90f0d6fc814fddad

From  
Address

Client IP Address

## Malicious Techniques

Fake Reply Individual Name Imposter

Credential

Phishing

Rare Communication

Link Masquerade

Cryptocurrency

Payroll Scam

Payment

Urgency

Address Masquerade

Victim-specific URL

Dash-Phishing

Brand Impersonation

Account  
Takeover



## Take Command of Your Mailbox



Search for a URL, subject line, recipient, IP...

Search

Messages Scanned

639

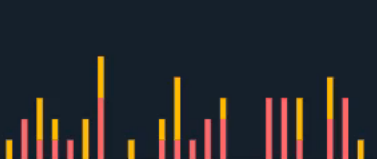
Last 24 Hrs



Malicious & Phishing

46

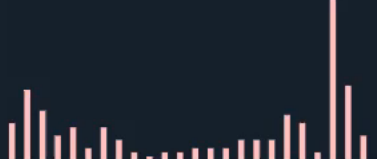
Last 24 Hrs



Spam

184

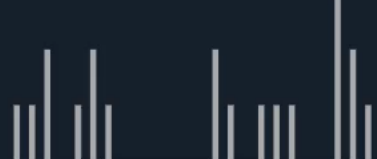
Last 24 Hrs



Graymail

20

Last 24 Hrs



Message ID: <DBAP1[redacted]@[redacted].PROD.OUTLOOK.COM>

Request EML Download

Download Logs

Timeline

Verdict Details

Subcategory

Payroll

Detections

URGENCY

Urges the user to take immediate action.

DISPOSABLE SENDER ADDRESS

The sender address seems to be disposable, so it may be unsafe.

SUBJECT TOPIC BEC

Subject text is often associated with business email compromise (BEC).

BANKING CHANGE

Email requests change to banking information Urgency - Urges the user to take immediate action.

Sender

From

[redacted]@icloud.com

Name

Lynda [redacted]

Reply To

[redacted]@icloud.com

Return Path

[redacted]@icloud.com

SMTP Server IP

10.[redacted]

SMTP Client IP

6[redacted]

X-Originating IP

Not Available

Recipients (1)

To

marvin@[redacted]

Attachments (0)

There are no attachments

Links (0)

There are no links.

Message ID: <DBAP1[redacted]@[redacted].PROD.OUTLOOK.COM>

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To

marvin@[redacted]

Attachments (0)

There are no attachments


Links (0)

There are no links.

Business Risk:  
Attack Intent

Threat  
Techniques:  
Attack Tactics


909Threat MessagesLast 30 days

 **BEC** (13%)

Business Email Compromise (BEC) are sophisticated scams that use social engineering and intrusion techniques to cause financial damage to the organization.

123Last 30 days


2.9K1 year projection

 **Scam** (27%)

Scams are focused on causing financial harm to individuals using techniques such as lottery or extortion fraud.

246Last 30 days


4K1 year projection

 **Phishing** (44%)

These messages have been convicted of fraudulently copying or mimicking legitimate services in an attempt to acquire sensitive information such as user names, passwords, credit card numbers, and more.

399Last 30 days

5K1 year projection


 **Malicious** (16%)


These messages have been convicted of containing, serving, or supporting the delivery or propagation on malicious software.

141Last 30 days

1.8K1 year projection


190Unwanted MessagesLast 30 days


 **Spam**



156Last 30 days

1.9K1 year projection

 **Graymail**

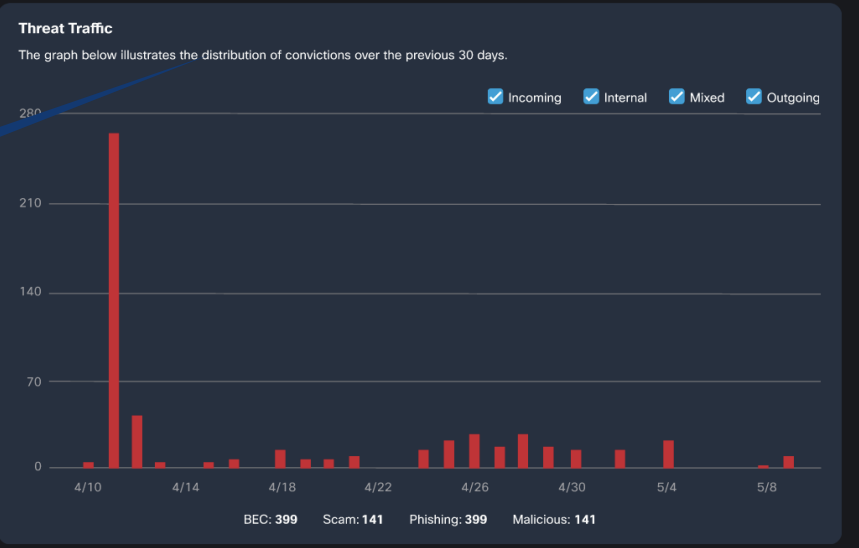


34Last 30 days

4141 year projection


**Top Targets**  
The statistics below indicate the addresses which received the most malicious and phishing messages over the previous 30 days.


Recipient	BEC	Scam	Phishing	Malicious	Totals
1 jdowne@magtor-test.onmicrosoft.com	2	4	4	194	204
2 aruband@magtor-test.onmicrosoft.com	0	10	47	50	115
3 jorguash@magtor-test.onmicrosoft.com	4	6		42	62
4 jdowne@magtor-test.onmicrosoft.com	0		8	24	48
5 clarr@magtor-test.onmicrosoft.com		1	10	28	40
6 jdowne@magtor-test.onmicrosoft.com	6	5	1	24	36
7 cyran@magtor-test.onmicrosoft.com	3	5	5	13	26
8 jdowne@magtor-test.onmicrosoft.com	2	4	6	12	24
9 cyran@magtor-test.onmicrosoft.com	2	1	7	10	20
10 jdowne@magtor-test.onmicrosoft.com	2	2	4	10	18





**Potentially Compromised Accounts**  
The internal addresses listed here were seen sending malicious or phishing messages from within the organization.

Sender	Number of Messages
LO jdowne@magtor-test.onmicrosoft.com	48
AB aruband@magtor-test.onmicrosoft.com	26
JP jorguash@magtor-test.onmicrosoft.com	14
JD jdowne@magtor-test.onmicrosoft.com	8

 **62K**  
Recipients protected from 141 Malicious messages

 **125K**  
Recipients protected from 252 Scam messages

 **200K**  
Recipients protected from 399 Phishing messages

 **70.5K**  
Recipients protected from 141 Malicious messages

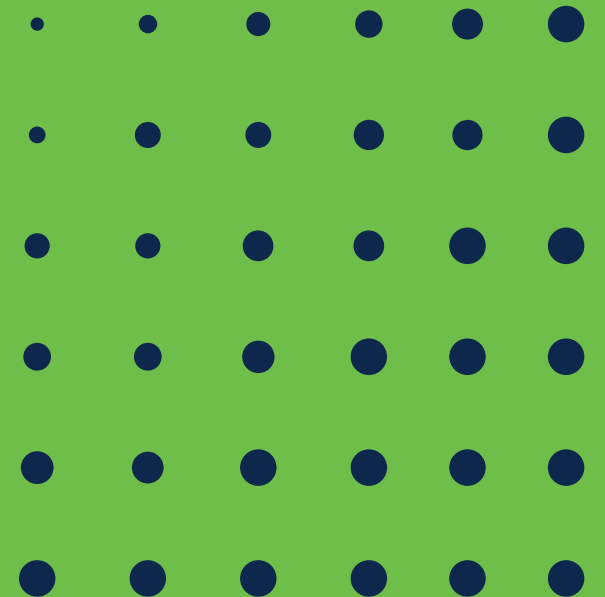
Business Email Compromise

Scam

Simplified Threat Reporting

Account Take Over Candidates

# What about APP/Email Phishing Defense?





# Positioning Guide

- APP/Agari was added because it brought value and features to the email security
- Significant investments were done into CM/ETD
- APP vendor became a “competitor” due to acquisition(Help Systems)
- APP is not free of challenges/limitations. We closed the gap within ETD
- ETD has proven to have more efficacy in stopping threats and more visibility(scans entire email)
- ETD is easier to deploy(no sensor), easier to support(TAC)
- APP End-of-Sale Dec 14 / End-of-Support Oct 31, 2027

# Key takeaways



- Cloud Mailbox is now Email Threat Defense
- ETD is an easy-to-deploy, full feature secure email solution with ML/AI support
- Advanced reporting provides more visibility



# Security Partner Discounts – Deal Registration

Security Domain	Security Hunting/Teaming	New Account Breakaway <u>or</u> Competitive	Partner-led 'One Year on Us' Discount w/ Credit
Secure Firewall (incl. Virtual)	up to 65%	72%	n/a
Secure Email	up to 65%	68%	79%
Secure Endpoint	up to 65%	68%	79%
Secure Web Appliance	up to 65%	68%	n/a
Cisco Kenna	up to 65%	n/a	76%
Secure Workload	up to 60%	n/a	73%
Identity Services Engine	up to 60%	64%	76%
Secure Network Analytics	up to 60%	64%	76%
Cloud Security (Umbrella)	up to 60%	n/a	73%
Secure Access by Duo	up to 35%	n/a	57%
Secure Email Threat Defense	up to 30%	n/a	53%

↑ up to 76%\*

## Take Back Incentive\*

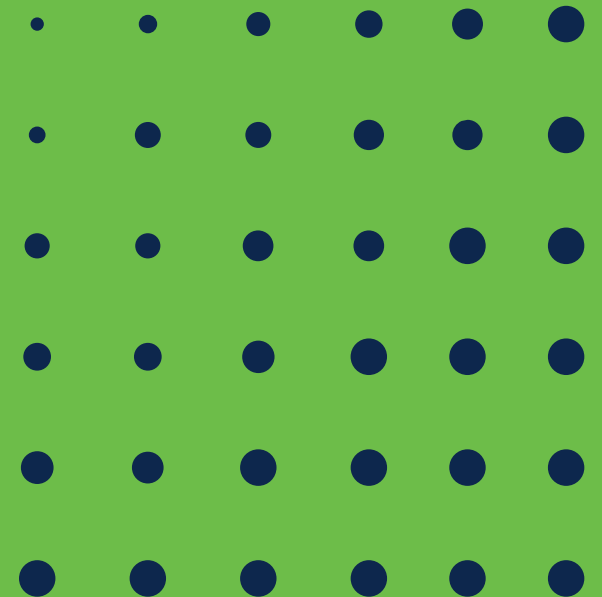
Earn a +4% incremental discount when migrating from Cisco Firewalls or Competitive Firewalls

\* Discounts are exclusive to only Sustainability Specialized Partners

All discounts are for direct/distributor pricing, and all 2-tier partners must negotiate directly with their distributor.

For more info: visit [Security Deal Registration](#)

# More Information



# Useful and updated Information

- Mailer: [ask-secure-email@cisco.com](mailto:ask-secure-email@cisco.com)
- TME SharePoint site: <https://cisco.sharepoint.com/sites/SecureEmail/>
- Free 30-day Trial  
<https://cs.co/cmd-trial>

Q&A

