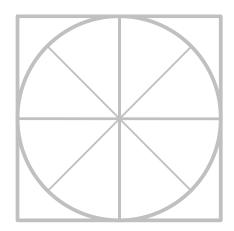
# THE RADICATI GROUP, INC.

# Secure Email Gateway - Market Quadrant 2021 \*



An Analysis of the Market for Secure Email Gateway Solutions, Revealing Top Players, Trail Blazers, Specialists and Mature Players.

November 2021

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# RADICATI MARKET QUADRANTS EXPLAINED

Radicati Market Quadrants are designed to illustrate how individual vendors fit within specific technology markets at any given point in time. All Radicati Market Quadrants are composed of four sections, as shown in the example quadrant (Figure 1).

- Top Players These are the current market leaders with products that offer, both breadth and depth of functionality, as well as possess a solid vision for the future. Top Players shape the market with their technology and strategic vision. Vendors don't become Top Players overnight. Most of the companies in this quadrant were first Specialists or Trail Blazers (some were both). As companies reach this stage, they must fight complacency and continue to innovate.
- 2. *Trail Blazers* These vendors offer advanced, best of breed technology, in some areas of their solutions, but don't necessarily have all the features and functionality that would position them as Top Players. Trail Blazers, however, have the potential for "disrupting" the market with new technology or new delivery models. In time, these vendors are most likely to grow into Top Players.
- 3. *Specialists* This group is made up of two types of companies:
  - a. Emerging players that are new to the industry and still have to develop some aspects of their solutions. These companies are still developing their strategy and technology.
  - b. Established vendors that offer very good solutions for their customer base, and have a loyal customer base that is totally satisfied with the functionality they are deploying.
- 4. *Mature Players* These vendors are large, established vendors that may offer strong features and functionality, but have slowed down innovation and are no longer considered "movers and shakers" in this market as they once were.
  - a. In some cases, this is by design. If a vendor has made a strategic decision to move in a new direction, they may choose to slow development on existing products.
  - b. In other cases, a vendor may simply have become complacent and be outdeveloped by hungrier, more innovative Trail Blazers or Top Players.

c. Companies in this stage will either find new life, reviving their R&D efforts and move back into the Top Players segment, or else they slowly fade away as legacy technology.

Figure 1, below, shows a sample Radicati Market Quadrant. As a vendor continues to develop its product solutions adding features and functionality, it will move vertically along the "y" functionality axis.

The horizontal "x" strategic vision axis reflects a vendor's understanding of the market and their strategic direction plans. It is common for vendors to move in the quadrant, as their products evolve and market needs change.

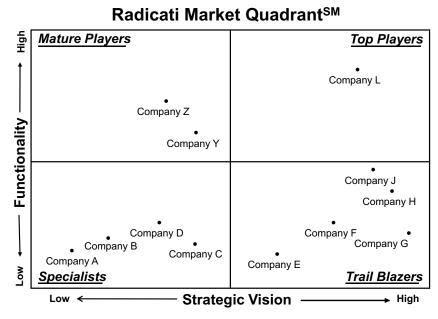


Figure 1: Sample Radicati Market Quadrant

# **INCLUSION CRITERIA**

We include vendors based on the number of customer inquiries we receive throughout the year. We normally try to cap the number of vendors we include to about 10-12 vendors. Sometimes, however, in highly crowded markets we need to include a larger number of vendors.

# MARKET SEGMENTATION – SECURE EMAIL GATEWAYS

This edition of Radicati Market Quadrants<sup>SM</sup> covers the "Secure Email Gateways" segment of the Security Market, which is defined as follows:

- Secure Email Gateways any software, appliance, or cloud-based service deployed at the mail server or SMTP gateway level to filter out spam, viruses, phishing/spearphishing attacks, and other malware from messaging traffic. Some of the leading players in this market are *Barracuda Networks, Cisco, Clearswift, Hornetsecurity, Microsoft, Mimecast, Proofpoint, Retarus, Sophos, Symantec, Trend Micro,* and *Trustwave*.
- Some vendors of Secure Email Gateway solutions offer products for corporate customers, as
  well as service providers. This report, however, looks <u>only</u> at solutions aimed at corporate
  customers, ranging from SMBs to very large organizations.
- The Secure Email Gateway market continues to see strong growth as email remains a leading vector for malware attack and penetration. Organizations of all sizes are investing in solutions to help protect against all forms of email-borne threats, particularly phishing and spear-phishing attacks. User awareness training in dealing with spear-phishing and email borne threats has become an increasingly important aspect of email security.
- Vendors of Secure Email Gateway solutions are increasingly integrating Data Loss
  Prevention (DLP), email encryption, Endpoint Detection and Response (EDR) or Extended
  Detection and Response (XDR), Advanced Threat Prevention (ATP), Phishing Awareness
  Training solutions, and more into their offerings.
- Organizations of all sizes continue to invest in highly sophisticated email security solutions, as email remains a key vector for malicious attacks and compromise. The worldwide revenue for Secure Email Gateway solutions is expected to grow from nearly \$3.7 billion in 2021, to over \$7.0 billion by 2025.

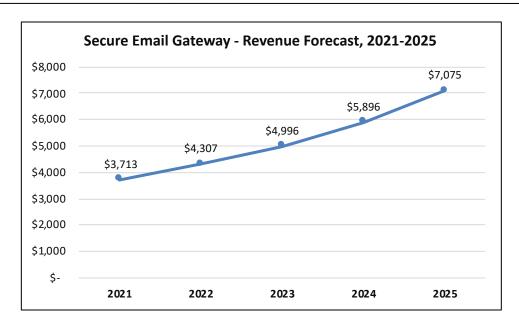


Figure 2: Secure Email Gateway Revenue Forecast, 2021 – 2025

# **EVALUATION CRITERIA**

Vendors are positioned in the quadrant according to two criteria: *Functionality* and *Strategic Vision*.

**Functionality** is assessed based on the breadth and depth of features of each vendor's solution. All features and functionality do not necessarily have to be the vendor's own original technology, but they should be integrated and available for deployment when the solution is purchased.

*Strategic Vision* refers to the vendor's strategic direction, which comprises: a thorough understanding of customer needs, ability to deliver through attractive pricing and channel models, solid customer support, and strong on-going innovation.

Vendors in the *Secure Email Gateway* space are evaluated according to the following key features and capabilities:

- *Deployment Options* availability of the solution in different form factors, such as onpremises, appliance and/or virtual appliance, cloud-based services, or hybrid.
- Spam and Malware detection is usually based on signature files, reputation filtering (proactive blocking of malware based on its behavior, and a subsequent assigned reputation score), and proprietary heuristics. The typical set up usually includes multiple filters, one or more best-of-breed signature-based engines as well as the vendor's own proprietary technology. Malware engines are typically updated multiple times a day. Malware can include spyware, viruses, worms, rootkits, and much more. Key to malware detection is the ability to identify and protect against malicious email attachments as well as malicious URLs contained in email messages. Spam detection needs to be able to deal with graymail (i.e. emails that users may have signed up for at one time but no longer want), as well as correctly identify spam without generating a high rate of false positives. Support for industry standards, such as DMARC, SPF, DKIM, which help identify spoofed emails is key.
- *URL control* detection and remediation of compromised URLs, in emails and attachments.
- *DMARC*, *SPF*, *DKIM support* support for leading domain anti-spoofing standards: Domain-based Authentication, Reporting and Conformance (DMARC), Sender Policy

Framework (SPF), and DomainKeys Identified Mail (DKIM).

- *Email application controls* templates and customizable policies to block/allow and/or allow specific email traffic.
- **Reporting** real-time interactive reports on user activity as well as long term reports, archiving logs, etc.
- *Directory integration* integration with Active Directory, and/or LDAP allows to set, manage and enforce policies across all users.
- Data Loss Prevention (DLP) allows organizations to define policies to prevent loss of sensitive electronic information. There is a broad range of DLP capabilities that vendors offer in their Email Gateway solutions, such as simple keyword-based filtering or full Content-Aware DLP. The inclusion of any DLP technology, is often still a premium feature.
- *Mobile device protection* support for all email activity from mobile devices, such as iOS and Android. The protection of mobile devices needs to be addressed in full, preferably with no visible end user latency.
- *Encryption* integrated email encryption or available add-on. The inclusion of encryption technology is often a premium feature.
- Directory Harvest Attack (DHA) detection detection of attacks designed to "harvest" legitimate email addresses within a particular domain by sending out a massive amount of emails to randomized addresses. Email addresses harvested in these attacks are used later for spam advertisements and fraud attacks.
- **Detection of Denial of Service (DoS) attacks** detection of attacks intended to take down an organization's email system by sending a large number of emails to an address or domain, in the hopes that the email system is overwhelmed and shuts down, disallowing users under that domain to send or receive emails.
- ATP and/or Enterprise-wide attack correlation ability to feed attack/malware detection
  information to broader enterprise-wide security services (e.g. ATP, web gateways, endpoints,
  and more).

- *Office365 API integration* the ability of the solution to integrate with Microsoft Office365 APIs.
- Business Entity Compromise (BEC) the ability of a solution to detect BEC, as well as block BEC attempts before they occur and provide remediation capabilities. BEC is a form of cybercrime which uses email fraud to target one or more employees in an organization with spoofed emails that represent a trusted employee, customer, or entity and which request the victim to release payments, credentials, customer information or privileged information. It often relies on social engineering to cause the victim to transfer money or information to the fraudster.
- Account Takeover is a form of BEC, where an account is appropriated for fraudulent reasons and starts generating fraudulent emails or is used for impersonation. The ability of the solution to detect and block account takeover attempts, as well as remediate the attack by removing all malicious emails sent by any compromised accounts.
- *Phishing Awareness Training* does the vendor also provide phishing awareness training? Is it offered inline? Is it the vendor's own offering or is it available through partner(s)? Is it priced extra?
- Archiving and/or Email Continuity Services does the vendor also provide email archiving and/or Email Continuity services? Is it the vendor's own offering or is it available through partners?
- *Administration* availability of a single pane of glass management across all users and resources. In hybrid (i.e. mixed on-premises and cloud deployments) it is particularly important that a single administrative interface be available across both types of deployments.

In addition, for all vendors we consider the following aspects:

• *Pricing* – what is the pricing model for their solution, is it easy to understand and allows customers to budget properly for the solution, as well as is it in line with the level of functionality being offered, and does it represent a "good value".

- *Customer Support* is customer support adequate and in line with customer needs and response requirements.
- Professional Services does the vendor provide the right level of professional services for planning, design and deployment, either through their own internal teams, or through partners.

<u>Note</u>: On occasion, we may place a vendor in the Top Player or Trail Blazer category even if they are missing one or more features listed above, if we feel that some other aspect(s) of their solution is particularly unique and innovative.

# MARKET QUADRANT - SECURE EMAIL GATEWAY

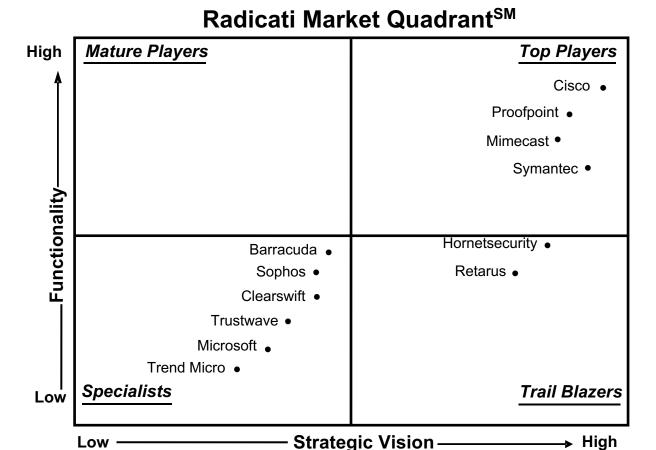


Figure 3: Secure Email Gateway Market Quadrant, 2021\*

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# **KEY MARKET QUADRANT HIGHLIGHTS**

- The **Top Players** in the market are *Cisco, Proofpoint, Mimecast, and Symantec*.
- The **Trail Blazers** quadrant includes *Hornetsecurity*, and *Retarus*.
- The **Specialists** quadrant includes *Barracuda*, *Sophos*, *Clearswift*, *Trustwave*, *Microsoft*, and *Trend Micro*.
- There are no **Mature Players** in this market at this time.

# SECURE EMAIL GATEWAY - VENDOR ANALYSIS

# **TOP PLAYERS**

# **CISCO**

170 West Tasman Dr. San Jose, CA 95134 www.cisco.com

Cisco is a leading vendor of Internet communication and security technology. Cisco's security solutions are powered by the Cisco Talos Intelligence Group, one of the largest commercial threat intelligence teams. Cisco is publicly traded.

## **SOLUTIONS**

Cisco Secure Email provides layered protection that defends against phishing, spoofing, business email compromise and loss of sensitive information. It is available in a number of form-factors, including: Cloud Gateway (SECG), Gateway (SEG), Virtual Secure Email Gateway (vSEG) for VMware and AWS, as well as a Hybrid (Cloud and On-Premises) solution. All gateway deployment options have feature parity.

In addition to the gateway offer, Cisco also offers Cloud Mailbox which provides API based protection for Office 365.

Cisco Secure Email supports customers across all market segments, with Gateway subscriptions

starting as small as 100 users with the same features and deployment options available to customers of all sizes. Hybrid deployments offer consistent policies and a familiar user interface across on-premises and cloud environments and allow customers to change the number of on-premises versus cloud users at any time during the term of their subscription.

Cloud Mailbox can be bundled with Cisco Secure Email to provide additional analysis or be consumed as a standalone service, providing inbound, internal and outbound visibility and control of Microsoft 365, starting at 1 seat(s) or more.

Cisco's Secure Email solutions comprise the following capabilities:

- O Spam & Threat Filtering Sender Reputation is the first layer of defense against all threats. It includes Sender IP Reputation filtering, and Sender Domain Reputation Filtering. IP Reputation provides dynamic protection against anomalous behaviors of the incoming IPs, hosts, domains or senders based on intelligence gathered though honeypots and intelligence feeds. Content Scanning is performed by Context Adaptive Scanning Engine (CASE) and Talos Anti-spam Logic eNgine (TALN) engines, which leverage both heuristic and Bayesian scanning techniques to identify malicious characteristics of the email. Machine Learning techniques in Cloud Mailbox help identify calls for action or urgency of the email which are then fed into other BEC and Phishing models to strengthen verdicts for threat classification.
- o Anti-Phishing and Malicious URL Detection Cisco offers deep inspection of URLs in four distinct phases during the scanning of messages. URL Reputation Service (URS) identifies known bad URLs which are filtered as part of the CASE engine. Content Filters are customizable filters with different options to control URLs, found in emails, this includes actions on their reputation and/or web categorization, as well as replacing the hyperlink with text (e.g. "This URL is blocked by policy"). Cloud URL Analysis (CUA) is triggered via Threat Outbreak Filters, which use crawling and static analysis techniques to determine if a threat exists in the URLs payload or code. URL Rewrite & Web Interaction Tracking allows administrators to see the URLs that were re-written by Content or Outbreak filters, who the message was targeting and if they had clicked on the URL. Cisco Secure Phishing Defense augments sender authentication and business email compromise (BEC) detection capabilities, through machine learning and behavior analytics.
- Anti-Spoofing includes Sender Domain Reputation which can determine if a well-known brand is being spoofed in the sender's email without having to create long lists of domains to monitor. Inbound message verification relies on DMARC, DKIM and SPF analysis to

determine the legitimacy and authenticity of the sender and potentially block messages from being delivered. Forged Email Detection detects spoofed and fraudulent messages with a forged sender address and performs specified actions to protect high-valued executive names. Domain Protection automates the process of sending domain validation of their own domains to prevent phishing and protect brands from fraud.

- Malware Defense is provided through three distinct services: Secure Malware Analytics,
   Virus Outbreak Filters, and Anti-Virus.
- Attachment Claw-back and Filtering Mailbox Auto Remediation automatically removes malicious files from inboxes supporting Microsoft Exchange 2016 and 2019, Office365 and hybrid deployments. Macro and FileType filtering, full inspection of PDF, OLE and Office file type attachments for macro or script presence. Malicious URLs in documents, extraction and scanning for malicious URLs inside PDF, OLE and Office file type attachments. Content Disarm and Regeneration (Safe Print) allows for attachments to be converted into a jpg and embedded in a PDF, while keeping the original in quarantine.
- O Threat Visibility and Investigation offers SecureX threat response integration, which provides investigative capabilities on threats based on URL, SHA values or domains and pivoting into Message Tracking data to simplify the investigation of threats. SecureX threat response is integrated throughout Cisco's portfolio, including Secure Email, Umbrella, Cisco Secure Web, Malware Defense and NGFW.
- Outbound Control includes Data Loss Prevention (DLP), offered as a built-in engine that uses pre-tuned data structures along with optional settings to create policies. Encryption leverages TLS and S/MIME as well as DANE support to provide effective detection of DNS poisoning attacks with TLSA support. Full payload encryption is available through the Cisco Secure Email Encryption Service (SEES), which provides both push and pull encryption. SEES is available as part of the Cisco Outbound Essentials and Premium bundle.
- Cisco Secure Awareness Training delivers phishing simulations and awareness training for end users.

### **STRENGTHS**

- Cisco Secure Email leverages threat intelligence capabilities from Talos, as well as customer centric generated intelligence to provide protection against both large scale and targeted attacks.
- Cisco Secure Email is integrated with the Cisco Secure Endpoint console and with Cisco SecureX. This provides customers with tight control, visibility, and automation from the network perimeter to the endpoint.
- Cisco Secure Email supports multi-layer defense capabilities that combine big data analytics harvested from signature-based analysis, reputation services, and behavioral analytics to deliver thorough risk analysis and low false positives.
- Cisco has focused on product simplification, in recent years, to ease deployment complexity for customers across all sizes.

## **WEAKNESSES**

- While highly feature-rich, Cisco Secure Email solutions tend to be somewhat pricier than competing vendor solutions. This is being addressed through the launch of new product bundles aimed at reducing overall cost of ownership.
- Cisco Secure Email solutions could benefit from an improved management interface. The vendor is addressing this as part of its roadmap.
- Customers indicate that some of the reporting functionality could be improved for greater ease of use. The vendor has this on its roadmap.
- Cisco SecureX supports integrations with the broader Cisco Security suite. However, additional work is needed to further enrich the integration of Cisco Secure Email solutions with other components of Cisco's security portfolio. The vendor has this on its roadmap.
- While Cisco currently offers email continuity services through a partnership with Commvault, it would be beneficial for Cisco to also offer Email Continuity through additional partners or as part of its core offering.

# **PROOFPOINT**

925 Maude Ave Sunnyvale, CA 94089 www.proofpoint.com

Proofpoint develops enterprise security solutions aimed at protecting people, data, and brands from advanced threats and compliance risks. The company delivers solutions for inbound email security, outbound data loss prevention, social media, digital risk, email encryption, compromised accounts, eDiscovery, security and awareness training, insider threat management and email archiving. In August 2021, Proofpoint was acquired by software investment firm Thoma Bravo.

### **SOLUTIONS**

Proofpoint offers email security solutions as tiered bundles to stop phishing, ransomware, and business email compromise, identify and remediate compromised cloud accounts, and prevent data exfiltration. Proofpoint offers a wide choice of deployment options including cloud, dedicated appliance, virtual appliance, or a hybrid deployment.

**Proofpoint Email Security** – available as an on-premises or cloud-based solution, serves to prevent email-borne threats, including phishing, business email compromise (BEC) and ransomware/malware, with granular search capabilities and visibility into all messages. It offers the following capabilities:

analyzing all URLs and attachments in email and cloud-based applications. Analysis is done both statically and dynamically in Proofpoint's cloud-based sandbox, accurately identifying both widespread and highly targeted attacks. URLs are re-written for post-delivery analysis upon click and are sent to an isolated browsing session to ensure that users are protected from suspicious URLs. End users can access the web content in read-only mode while the websites are analyzed to determine any malicious behavior. All threat forensics, screenshots, and threat landscape intelligence are visible in the management dashboard allowing administrators to understand the incidents, campaigns, and threat actors attacking them. Threat timeline and threat actor objective reports provide visibility into potential malware attacks by analyzing trends behind individual actors and threats. Proofpoint scores all threats entering an organization and assigns an Attack Index score to every person in the

organization. This helps identify Very Attacked People (VAPs) and enables a connection between email security and other adjacent controls, such as security awareness training, browser isolation, and cloud application security.

- Threat Simulation & Security Awareness Training using VAP reporting, specific groups of users can be enrolled in training appropriate to the threats that they are being targeted with. This can also help assess end user vulnerability and puts in place corrective training to enhance the user's ability to identify and report threats. The integrated security awareness training platform includes phishing simulations based on real-world threats, diverse training content across different security topics (e.g., passwords, internet and cloud, mobile devices, physical security, email) and a dashboard that provides at-a-glance view of program performance.
- Cloud Application Security Broker (CASB) offers visibility and control with a peoplecentric approach to protect users and safeguard sensitive data across both cloud and email threats. It also helps discover shadow IT and govern the use of cloud and third-party OAuth apps.
- Email Authentication (DMARC) prevents fraudulent use of an organization's domain (spoofing) and protects the company brand from being used in fraudulent email attacks. This provides companies with more visibility into malicious lookalike domains or emails being sent using their domain, including third-party senders.
- Automated abuse mailbox analysis and remediation Closed Loop Email Analysis and Response (CLEAR) automates the analysis, identification, and removal of malicious emails reported by end users through an abuse mailbox. It also provides user feedback to help reinforce end user learning.
- O Block email fraud/business email compromise (BEC) powered by Supernova (Proofpoint's next-gen AI/ML-based detection platform), Proofpoint's Advanced BEC Defense capability helps uncover sophisticated email fraud attacks. Supernova leverages inbound and outbound gateway telemetry, supply chain risk analytics, and API data from cloud productivity platforms to dynamically classify and analyze all aspects of email messages, including an email recipient's halo of communication: who they communicate with and how often, semantically what types of conversations they have, sender reputation, IP addresses, header information, and the content of the email, including words/phrases commonly used in email

fraud attacks. It then utilizes machine learning, stateful analytics, behavioral analytics, rulesets, and research on threat actor tactics to help detect sophisticated fraud attacks before they impact end users.

- o Account Compromise Detection provides analysis of all internal email to identify and remove spam and malware, as well as detect suspicious behavior across cloud applications.
- Block attacks through personal webmail protects against threats and data exfiltration, via employee use of personal email accounts, such as Gmail or Outlook.com through browser isolation integration.
- Automated Response/mSOAR includes the ability to automatically remove potentially
  malicious email from an end user inbox, including forwarded messages. It also automates
  other remediation actions, such as blacklisting IP addresses, orchestrating workflow to
  quarantine an infected endpoint and requiring password resets.
- Outbound information protection provides controls for encryption and data loss prevention, to protect against the loss of private or sensitive data including that associated with GDPR, or email fraud.

### **STRENGTHS**

- Proofpoint's unique process for identifying Very Attacked People (VAPs), enables security teams to understand their organization's human attack surface and implement a more effective security posture.
- Proofpoint's email security solution integrates with threat intelligence and forensics for information about malware, phishing, and email fraud, allowing security teams to better understand the threats, campaigns, and threat actors who carry out attacks.
- Proofpoint can protect against malicious URLs in attachments, and against threats that are delivered as password-protected attachments.
- Integration between sandboxing analysis and browser isolation offers an additional layer of security while allowing end users to access websites in a read-only mode.

- Proofpoint offers the option to analyze internal emails to identify threats that may originate inside the organization due to compromised accounts.
- Proofpoint provides extensive reporting for email, threat forensics and DLP. DLP events are
  displayed in a dashboard with prioritization, so administrators know which events to
  investigate.
- Automated response capabilities allow IT and security teams to resolve security incidents without incurring additional management overhead.
- Integration between threat intelligence and security awareness training allows organizations to customize training based on the actual threats targeting a user, and to use lures spotted "inthe-wild" for phishing simulation.

## **WEAKNESSES**

- Proofpoint offers best-in-breed secure email gateway and web security solutions, however, it
  does not offer endpoint protection. While Proofpoint does have partnerships with endpoint
  security vendors (e.g., CrowdStrike), customers wanting an integrated solution from a single
  vendor that combines secure email gateways and endpoint protection will need to look
  elsewhere.
- Customers indicate that while feature rich, Proofpoint Email Protection can be complex to install and maintain. However, Proofpoint does offer managed services for email security.
- Proofpoint's Email Security platform tends to be somewhat more expensive than competing solutions. However, the Proofpoint Essentials solution, aimed at organizations with less than 1,000 users, is priced to address the SMB market.
- Proofpoint solutions are still best known in North America, the company is investing to further improve its international presence.

# **MIMECAST**

1 Finsbury Avenue London EC2M 2PF www.mimecast.com

Founded in 2003, Mimecast is a provider of cloud-based business services which comprise email security, archiving, email continuity, web security, security awareness training, and more. Mimecast is headquartered in London, UK, with North American headquarters in Lexington, MA and offices globally. Mimecast is a publicly traded company.

## **SOLUTIONS**

Mimecast Email Security with Targeted Threat Protection is a core component of Mimecast's Email Security 3.0 strategy. It enables protection against email attacks by addressing threats in three distinct zones: at the email perimeter, inside the network and the organization, and beyond the perimeter. It protects against malware, spam, advanced phishing, impersonations, and other emerging and targeted attacks, while preventing data leaks. Email Security 3.0 also encompasses awareness training and services to reduce the complexity of DMARC deployment and provide brand exploit protection. Mimecast also delivers email continuity, enterprise information protection (including archiving and data recovery) and web security. Mimecast services are all provided on their multi-tenant, cloud-based platform, Mime|OS, hosted in their global data centers.

Mimecast employs a multi-layered approach for spam, malware blocking and anti-phishing, which relies on a mix of established AV engines, reputation lists, file sandboxing, static file analysis, URL rewriting and related web site analysis, as well as proprietary heuristics and intelligence to provide anti-malware, anti-spam, and malicious URL filtering.

Mimecast offers a single integrated administration console for all services, complete with templates and customizable policies that enables administrators to monitor, report, and change the block/allow decisions of the system, and manage many other aspects of their services.

Mimecast provides extensive logging to ensure visibility of user and overall organizational activities. DLP logs from emails offer breakdowns showing which DLP policy was triggered, by whom and what action was applied. In addition, Mimecast provides an open API architecture

with out-of-the box integrations to help customers surface email intelligence, share threats bilaterally with security enforcement points and automate/orchestrate actions with SIEM, SOAR and EDR/XDR systems (e.g. Splunk, IBM QRadar, Microsoft, Crowdstrike, and others). The API also allows customers to ingest their own threat data into their Mimecast tenant.

Mimecast Targeted Threat Protection extends traditional email security (AS/AV) to defend against targeted attacks, including malicious links in email, malware attachments and malwareless social-engineering attacks (i.e. business email compromise or impersonations). Real-time scanning and blocking of suspect websites, attachment sandboxing and static file analysis prevent employees from inadvertently downloading new or customized malware or revealing credentials to attackers. Inbound emails are also inspected to detect impersonations of internal domains, employees, business partners, or well-known internet brands (combining both a Mimecast managed and customer customizable list of lookalike domains). Dynamic user awareness capabilities reinforce email security policies and engage employees in assessing risks on an ongoing basis as they click. Internal-to-internal and outbound emails are also inspected and remediated, to prevent the spread of attacks or policy violations in the movement of sensitive content. Ongoing checks are performed to identify malware that may already be inside the mail system and automatically remove it from mailboxes, as well as from the Mimecast Archive.

Browser Isolation is integrated with Email Security URL Protect to open potentially malicious URLs in a remote browser session. Web pages can be rendered read only to prevent credential and sensitive information phishing and zero-day malware is contained in the remote session. Users of Mimecast Web Security are provided a single policy across both services.

Mimecast's Awareness Training service which is integrated into the Mimecast platform, offers bite-sized security awareness training and cyber risk management content via videos which help combat information security breaches caused by employee mistakes. Customers can convert the phishing attacks that their users have clicked on (users are protected via rewritten URLs) into phishing campaigns to test the rest of their users. The results from 'bad' URL clicks and phishing campaigns are integrated into Mimecast SAFE Score's user risk score which also measures statistics such as sentiment, engagement with training modules and answers to assessments.

Mimecast Email Incident Response includes AI-powered automation tools that analyze, triage and prioritize potential threats, and email meta data is enriched by intelligence from the Mime|OS platform. User-reported threats are routed to Mimecast's security operations center where they are automatically analyzed, triaged and prioritized for analyst classification and remediation.

Mimecast CyberGraph combines email tracker protection, identity graph machine learning and dynamic contextual banners embedded in emails to protect from targeted email threats.

Mimecast includes DLP capabilities based on its own technology. It also adds a fuzzy hashing capability which scores attachments based on content and enables administrators to apply rules to make block/allow/encrypt decisions on outbound emails. Mimecast also integrates with Netskope to offer organizations an omnichannel DLP solution engineered to fully manage and secure inbound and outbound email, blocking questionable email and sensitive content based on DLP tags.

# **STRENGTHS**

- Mimecast offers a single integrated solution which can deliver email security, continuity, and archiving for inbound, outbound, and internal emails. This combination can be particularly useful when dealing with potentially destructive attacks, such as ransomware, that require prevention, failover, and recovery services.
- Mimecast's Email Security 3.0 strategy combines multiple email security services in a solution framework to meet the email security needs of organizations, ranging from SMBs to large enterprises.
- Mimecast's solution integrates with the customer's Active Directory (AD) and Google GSuite environments such that log-in is accomplished with the user's credentials and attributes
  about the user are used to determine access and security policy execution. AD and Google GSuite information is also used to detect potential employee impersonations in inbound emails.
- Mimecast includes strong DLP capabilities based on its own technology, as well as in partnership with Netskope.

## WEAKNESSES

- Mimecast email security is entirely cloud-based, which may not suit organizations that are still reluctant to rely entirely on cloud-based security systems.
- Mimecast provides email security, along with email continuity, information archiving, and web security gateway capabilities. While this is useful for some customers, it does not satisfy

customers who may be seeking to acquire email security and endpoint protection from a single vendor. However, Mimecast does provide custom integrations with endpoint security vendors such as Crowdstrike, for automated bi-lateral threat sharing.

 Some customers we spoke with as part of this research indicated that reporting could be improved to offer greater granularity.

# SYMANTEC, A DIVISION OF BROADCOM

1320 Ridder Park Drive San Jose, California 95131 United States www.broadcom.com

Symantec offers a wide range of security solutions (network, endpoint, information and identity) for the enterprise market. Symantec operates the largest civilian cyber intelligence network, allowing it to see and protect against the most advanced threats. Symantec is part of Broadcom Software, an operating division of Broadcom. Broadcom is publicly traded.

# **SOLUTIONS**

Symantec offers two cloud based email security solutions, a messaging gateway solution and some feature add-ons as follows:

Symantec Email Security.cloud – a multi-tenant, cloud based email security service built to protect any combination of email deployments, including Microsoft Office 365, Google G Suite, hosted mailboxes and on-premises email systems, such as Microsoft Exchange. Symantec Email Security.cloud blocks targeted attacks, spear phishing, ransomware, viruses and malware, business email compromise (BEC) attacks, email fraud, spam, and bulk mail with anti-malware and anti-spam services. This protection includes technologies, such as advanced heuristics, deep evaluation of links before email delivery, advanced phishing variant detection, and impersonation controls. It controls sensitive data and helps meet compliance and privacy requirements with built-in data loss prevention (DLP) and policy-based encryption policies. In addition, integration with the Symantec DLP solution enables more comprehensive DLP controls for protection of data across multiple channels.

Email Threat Detection, Response and Isolation (ETDRI) – is an enhanced email security service that extends Email Security.cloud's ability to detect targeted attacks, provide visibility into the attack landscape and therefore accelerate remediation. It also includes remote browser isolation capabilities to provide further protection against malicious weblinks and phishing attacks. It uses cloud-based sandboxing and payload detonation to identify and stop complex threats, including attacks that are virtual machine-aware. Deep evaluation of suspicious links at the time of click helps block advanced phishing attacks that weaponize a link after an email is delivered. ETDRI also provides detailed data on targeted attacks that attempt to enter an organization via email, as determined by Symantec research analysts. In addition, Targeted Attack Analytics provides information on email campaigns, helping organizations build protection around high risk users. Analytics data can easily be exported to third-party Security Incident and Event Management (SIEM) solutions, Symantec Endpoint Detection and Response, Symantec Integrated Cyber Defense Exchange, Symantec Information Centric Analytics, and other security tools. ETDRI includes auto-remediation capabilities to claw back emails from O365 inboxes that are detected as malicious post-delivery. Symantec also offers Phishing Readiness services as part of ETDRI, which allows customers to identify risky users and improve end user awareness through simulated phishing attacks. The license includes Symantec Email Threat Isolation, an integrated cloud based service that stops advanced email attacks by insulating users from spear phishing, credential theft, and ransomware attacks.

**Symantec Email Fraud Protection** – an add-on service that helps organizations automate implementation of sender authentication controls such as SPF, DKIM, and DMARC. The service builds and manages a global whitelist of trusted third-party senders by cataloging thousands of third-party email services and automatically updating this list with any configuration changes.

**Symantec Messaging Gateway** – an on-premises appliance (available as a physical or virtual appliance) which secures email with real-time antivirus and anti-malware protection, targeted attack protection, advanced content filtering, Symantec Data Loss Prevention integration, and optional email encryption. Symantec also provides a license bundle that includes both Symantec Message Gateway and Email Security.cloud. Messaging Gateway integrates with Symantec Content Analysis, an advanced content filtering and malware analysis platform, to provide advanced threat protection.

All Symantec email security solutions are backed by the Symantec Global Intelligence Network, its global threat intelligence network, that takes data inputs from all Symantec's security

products to provide protection intelligence across the portfolio (e.g. using file behavior on the endpoint to determine that files being sent by email are malicious).

### **STRENGTHS**

- Symantec email security solutions are available as on-premises as well as cloud based solutions. Licensing options allow customers to combine these capabilities to also deploy hybrid scenarios.
- Symantec offers integrated threat isolation for corporate email, which helps prevent advanced email attacks such as spear phishing, credential phishing and ransomware. The threat isolation feature can also isolate suspicious attachments.
- Symantec's Email Fraud Protection service helps customers implement and automate sender authentication controls such as SPF, DKIM, and DMARC.
- Symantec accelerates response to targeted, advanced email attacks with deep visibility as
  well as powerful remediation capabilities. In addition, integration with SIEM/SOAR
  solutions and other security tools enables security analysts to easily correlate threats across
  multiple security products.
- Symantec Email Security solutions are an integrated part of the Symantec Integrated Cyber Defense portfolio, the same portfolio that powers the Symantec Data-Centric Hybrid Cloud SASE strategy. This approach allows Symantec security solutions to better unify cloud and on-premises security.
- Symantec email security solutions enable customers to prevent data leakage and ensure compliance through granular DLP and encryption controls. This includes integration with Symantec's stand-alone DLP solution.

### WEAKNESSES

• Symantec has been working to bring together and harmonize its portfolio of email security solutions across Email Security.cloud and Messaging Gateway through licensing bundles.

Customers choosing a hybrid deployment, however, can expect differences in administration

procedures across the different solutions.

- Email Security.cloud and Messaging Gateway do not offer archiving or email continuity capabilities, but can integrate with third-party solutions that deliver that functionality.
- While Symantec offers blacklisting of Indicators of Compromise (IOC), and Auto Remediation to delete an email from the users' inbox which is later found to be malicious, it currently does not provide the ability to search and automatically remediate IOCs. However, the vendor has this on its near term roadmap.
- Symantec lost some mindshare following the Broadcom acquisition. The vendor has implemented a number of changes to address this.

# TRAIL BLAZERS

# HORNETSECURITY

6425 Living Place Suite 200 Pittsburgh, PA 15206 www.hornetsecurity.com

Hornetsecurity is a global email cloud security, compliance and backup provider, which secures companies and organizations of all sizes worldwide. Hornetsecurity is headquartered in Hanover, Germany with 10 regional offices and operates through its international network of channel partners, MSPs and its 11 redundant, secured data centers. The company is privately held.

### **SOLUTIONS**

Hornetsecurity offers cloud-based security solutions aimed at addressing all areas of email security, including spam and virus filters, legally compliant archiving, encryption, as well as defense against CEO fraud and ransomware. In January 2021, the company acquired Altaro, a provider of backup, replication, and recovery solutions. Hornetsecurity offers backup and replication solutions with a particular focus on Microsoft 365. It offers an all-in-one email security, backup and compliance solution, with a central management console for ease of use and management.

The company offers the following suite of services:

• **365 Total Protection** – offers comprehensive protection for Microsoft 365 and Microsoft cloud services. It is available in three versions Business, Enterprise, and Enterprise Backup.

The **Business edition** comprises the following features:

- o *Threat Detection* multi-stage in-depth analysis and filter systems detect and block spam and virus threats.
- o Global S/MIME and PGP Encryption protects the entire email communication from being altered or read by third parties without authorization.

# The Enterprise edition adds:

- Forensic Analyses + AI relies on artificial intelligence and machine learning to detect and avert threats, fraud attempts and digital identity theft at an early stage. It delivers an Intention Recognition System, Fraud Attempt Analysis, Identity Spoofing Recognition, Spy-Out Detection, Feign Facts Identification and Targeted Attack Detection.
- URL Malware Control protects against targeted and blended attacks and digital espionage and notifies of any direct attacks.
- ATP-Sandboxing (available with the Enterprise edition) offers protection against targeted and blended attacks. It serves to detect malware in email attachments and automatically alert IT security teams of a potential threat.
- O GDPR + GoBD email archiving is done automatically, when emails are sent/received in accordance with GDPR requirements. Different retention periods can be specified based on applicable data protection regulations. Private emails can be marked by the user and individual users can be excluded from the archiving procedure. In-house email communication can also be archived.
- Global Security Dashboard centralizes all the functions and results of 365 Total
   Protection and offers a complete overview of the company security. A range of

information and statistics information is displayed on the Dashboard based on the selected service levels.

- Email continuity provides a stand-by system that can be activated within seconds, enabling employees to continue to communicate smoothly in the event of an infrastructure failure.
- Email archiving stores emails in a revision-proof and legally compliant manner in secure Hornetsecurity data centers.

The Enterprise Backup edition adds data loss prevention (DLP) functionality through:

- Automatic backup of M365 data backs up M365 user and group mailboxes, Teams
   Chats, SharePoint document libraries, OneDrive business accounts, with various restore options for quick and easy recovery.
- Endpoint backup backs up files on users' roaming and on-premises endpoints such as laptops and desktop computers.
- **365 Total Encryption** is a paid for add-on service to 365 Total Protection. It encrypts the entire content of the enterprise email communications in Microsoft 365, providing protection against all forms of espionage and hackers. All incoming email messages are fully encrypted before they reach the Microsoft cloud. Emails already stored in a Microsoft 365 mailbox are also encrypted once 365 Total Encryption is activated.
- **365 Threat Monitor** is a mobile app for systems administrators which serves to detect and delete any threats that breach the Microsoft 365 environment. It is available for free via both the Apple and Android app stores.

In addition, Hornetsecurity offers the following services as stand-alone solutions:

• **Spam and Malware Protection** – offers high detection rates for spam and viruses. The Spam Filtering Service effectively protects mail servers against DDoS attacks and phishing emails.

- Advanced Threat Protection offers a broad set of defense mechanisms that include freezing, URL scanning, rewriting, sandboxing, and Malicious Document Decryption to safeguard IT infrastructures against advanced threats like Emotet, CEO fraud or Ransomware.
- Email Continuity Service supports uninterrupted mail services through an alternative email solution (POP3/IMAP mailbox or webmail access). All archived emails are securely stored in encrypted databases in certified and secured data centers.
- **Email Archiving** ensures that all incoming and outgoing emails are automatically stored in their original form in Hornetsecurity's data centers immediately upon arrival and dispatch. Emails cannot be edited or deleted before the set retention period has expired.

# **STRENGTHS**

- All Hornetsecurity services are cloud-based, which delivers all the advantages of cloud to customers.
- Hornetsecurity offers a comprehensive set of services aimed at all aspects of email security, at an attractive price point for organizations of all sizes.
- Hornetsecurity offers a SIEM Connector, which automatically receives and imports email log entries from the Hornetsecurity Cloud and provides an interface to SIEM services from Hornetsecurity's 365 Total Protection and Spam Filter Service solutions.
- Hornetsecurity provides seamless integration of its services with Microsoft 365.
- Coupled with the email protection, Hornetsecurity also offers data loss prevention capabilities for Microsoft 365 and Windows endpoints, providing a single vendor solution managed through a single pane of glass.
- Hornetsecurity offers Email Authentication as a standard solution, with a self-service module in the control panel, which allows admins to easily configure the service.

# WEAKNESSES

- While Hornetsecurity is currently well known in Europe, so far it has been less visible in the North American market. The company is working to address this.
- Hornetsecurity offers strong email protection, however, it does not offer endpoint or web security which may disappoint customers looking to source all three from a single vendor.
- Hornetsecurity does not yet offer phishing awareness training, however, the vendor has this
  on its near term roadmap.

# RETARUS

Aschauer Strasse 30 81549 Munich, Germany

Retarus, founded in 1992, enables efficient and secure business communication for companies worldwide via enterprise-level cloud solutions. Retarus is based in Germany, with offices in Europe, the USA, and APAC. The company is privately held.

# **SOLUTIONS**

Tthe Retarus **Secure Email Platform** is a comprehensive cloud-based solution which addresses key challenges relating to email communication. Retarus solution helps large and mid-size organizations fight cyberattacks at the gateway level and protect against sophisticated threats, including business email compromise, phishing, ransomware attacks, social engineering, and more. The Secure Email Platform offers business continuity, high performance transactional and marketing email, real-time monitoring and analytics, as well as automated workflow and routing services. Retarus Secure Email Platform is a pure cloud service, highly available with built-in redundancy via multiple data centers. Retarus offers a fully European option for GDPR sensitive customers.

Retarus' services integrate with SIEM / SOAR systems and existing email infrastructures, including Microsoft 365, Google G Suite, Microsoft Exchange, Domino, and others. Retarus offers 24/7 support through an in-house team and dedicated personal Service Managers.

Key features and functionality of the Retarus Secure Email Platform include:

- o Essential Protection offers a basic layer of protection using antivirus and antispam engines to end-to-end protection from phishing and spoofing, as well as inbound traffic management.
- Advanced Threat Protection delivers increased security aimed at addressing new complex threats involving social engineering and targeted attacks. It delivers a comprehensive set of features for antiphishing, antivirus, antispam, CXO Fraud, as well as malware detection through best-of-breed data sources and Retarus' own technology.
- Sandboxing offers in-depth analysis of specific file attachments, including AI/ML algorithms and heuristics to identify "zero-day attacks". It is based on technology from Palo Alto Networks, hosted and managed in Retarus data centers to ensure data protection and compliance.
- Patient Zero Detection allows early recognition and alerting of previously unknown
  malware and phishing URLs. It uses digital fingerprinting (i.e., a hash of metadata and
  URL/attachments) to back-track, detect and automatically claw back any threats in emails
  that have already been delivered.
- o Retarus Enterprise Administration Services Portal (Retarus EAS Portal) offers a dashboard which provides information about the effectiveness of Retarus Email Security Services. All reporting and monitoring information can be downloaded in a prepared format.
- O Quarantine portal is an easy-to-use tool which helps educate users about the potential risk posed by each message blocked. Threats are displayed distinctly from messages that were filtered out due to self-configured rules.
- Archiving offers tamper-proof archiving of business email in real-time, for both internal
  and external messages and their attachments. Including access and change logging as well as
  fast search.
- o *Encryption* key-based encryption is provided via S/MIME, PGP and OpenPGP at the gateway level. Additional password-based encryption is available via the Secure Webmailer service which allows to include recipients without an encryption solution in place.

- O DLP checks emails addressed to external recipients systematically against pre-defined criteria and helps prevent loss of internal and confidential information. Specific rules regarding permitted recipients can be defined at the mailbox level, an integrated attachment blocker can also prevent the sending of specified files or file formats.
- Email Continuity offers cloud-based webmail backup providing ready-to-use, preprovisioned inboxes and access to the company address book. It is designed to be intuitive and mobile-friendly.
- Predelivery Logic allows companies to organize, edit and route emails based on custom security rules. It also offers smart content analysis and workflow automation.
- o Transactional Email is an additional service for the transmission of high-volume emails generated by business applications (e.g. CRM systems such as Salesforce). It includes advanced mechanisms for improved deliverability rates, detailed tracking, and secure document handling options.
- Bounce & Response Manager is an additional service which enables companies to organize, administrate and automate all inbound messages as they arrive.
- Trace and Recover offers short-term archiving of all emails generated by business applications for easier access and research by support and contact center staff.

### **STRENGTHS**

- Retarus delivers an attractive portfolio of email security capabilities in an efficient cloudbased solution that meets the needs of customers of all sizes.
- Retarus Patient Zero Detection extends email security to post-delivery, providing new levels
  of risk mitigation.
- The Retarus Enterprise Administration Portal offers easy-to-use real-time email live search, including analytics and IT forensics.
- Retarus provides flexible access management and end-to-end encryption.

- Retarus offers email continuity services, which are a value-added for customers.
- As a European company with headquarters in Germany, Retarus offers cloud services that are fully GDPR compliant.

## WEAKNESSES

- Retarus Email Security is entirely cloud-based, which may not suit organizations still reluctant to rely entirely on cloud-based security.
- Retarus offers email encryption through its Retarus Email Encryption module. However, this an extra cost item.
- While Retarus provides basic integration with Microsoft Azure directory services, this could be enhanced to provide more granular policy controls.
- Retarus does not currently support DMARC. The vendor has this on their roadmap.
- Retarus does not currently offer user phishing awareness training, which has become popular with many competing solutions.
- Retarus currently lacks visibility in the enterprise security market, particularly in North America.

# **SPECIALISTS**

# **BARRACUDA NETWORKS**

3175 S. Winchester Blvd Campbell, CA 95008 www.barracuda.com

Founded in 2003, Barracuda Networks provides email protection, content, network and application security, and data protection services to business organizations. Barracuda Networks is privately held by Thoma Bravo.

## **SOLUTIONS**

Barracuda offers email protection solutions through flexible deployment options which include hardware appliances, virtual appliances, cloud hosted, and public cloud instances (e.g. AWS, Azure, vCloud Air). It offers the following solutions under the umbrella of **Total Email Protection**:

- Barracuda Email Security Gateway is an appliance-based solution which manages and filters inbound and outbound email traffic to protect organizations from email-borne threats and data leaks. It is available as a virtual appliance, or in a public cloud environment, such as Amazon Web Services (AWS), Microsoft Azure, or VMware vCloud Air.
- Barracuda Essentials is a cloud-based email security solution that combines several layers of protection for inbound and outbound email to secure against advanced email borne attacks, and email spooling to ensure business continuity. Barracuda offers a multi-layered antispam protection approach that involves connection management including rate control, IP reputation including RBLs, sender and recipient authentication and content scanning policies including attachment filters, URL/image investigation, and custom policies. Essentials includes attachment sandboxing as well antivirus, anti-phishing, and typo-squatted link protection to secure against sophisticated targeted attacks. It includes data loss protection and email encryption to keep sensitive data secure, as well as email continuity services in the event the primary email service becomes unavailable. Barracuda Essentials is email-system agnostic and supports all email systems, including Microsoft Office 365.
- Barracuda Sentinel combines artificial intelligence, deep integration with Microsoft Office 365, and brand protection into comprehensive cloud-based solution that guards against spear phishing, business email compromise and account takeover. Sentinel's API based architecture uses an AI engine to study historical communications patterns. This allows it to identify anomalies in messages, as well as find and block social engineering attacks in real time. Sentinel can also stop phishing attacks used to harvest credentials that lead to account takeover. It can also identify accounts that are already compromised and alert IT.
- **Barracuda PhishLine** helps protect against social-engineering threats through continuous simulation and training for employees. It allows organizations to embed anti-phishing attack simulation into everyday business processes, to help users recognize and stop email fraud,

data loss and brand damage.

• Barracuda Forensics and Incident Response – automates response and remediation of email attacks. Automated incident response allows IT to quickly identify the nature and scope of an attack, and immediately eliminate malicious emails by removing them directly from the users' inboxes. An automated workflow builder enables incident response playbooks by defining triggers, determining conditions and assigning desired actions through a simple to use user interface. Analytic capabilities provide insight into delivered mail which helps identify malicious messages in users inboxes.

Barracuda's email security solutions include DLP capabilities at no additional cost. Customers can prevent or block outgoing emails based on content in the subject, body, header, attachments, or using Barracuda's pre-defined filters. Barracuda's email security solutions also offer pull based encryption capabilities at no extra charge. Customers can send out encrypted emails via policies defined by administrators, or via an Outlook add-in.

Barracuda's Advanced Threat Protection (ATP) combines behavioral, heuristic, and sandboxing technologies to protect against zero hour and targeted attacks. ATP automatically scans email attachments in real-time; suspicious attachments are detonated in a sandbox environment to observe behavior. In addition to blocking attachments, the results are fed back into the Barracuda Real Time System providing protection to all other customers.

Barracuda offers an easy to use dashboard view that summarizes what the solutions have blocked and allowed for both incoming and outgoing email. In addition, the Barracuda Cloud Control administrative interface, which is available at no charge, allows customers to add in other Barracuda products and manage all products through a central user interface.

# **STRENGTHS**

- Barracuda solutions are easy to install, manage and monitor through centralized on-premises
  management with or without a separate management server, or through Barracuda's Cloud
  Control administrative interface.
- Barracuda provides protection to detect and block spear phishing, business email compromise, account takeover, and other targeted attacks. Barracuda solutions provide attack detection, as well as automated incident response to quickly remediate email attacks that may

have gotten through.

- Barracuda supports automated incident response through its Forensics and Incident Response tool, which gives IT control on responding to unique use cases, eliminate manual and repetitive tasks.
- Barracuda Real-Time Protection offers strong protection to stop rapidly propagating threats, and correlates threat intelligence across email and web gateways.
- API integration with Office 365 provides visibility into internal and historical data to help protect against spear phishing and account takeover.
- Barracuda PhishLine offers extensive tools and techniques for user security awareness training, helping to embed training in everyday user activities.
- Barracuda also provides a full suite of cloud archiving and backup solutions that integrate with Microsoft Office365, OneDrive for Business, SharePoint and Teams.

# WEAKNESSES

- Barracuda provides basic DLP functionality, customers with more advanced requirements will need to add a special-purpose DLP solution.
- Customers indicate that management of Barracuda content filters can be somewhat complex.
- While Barracuda's management interface for Sentinel and Essentials has been improved through greater data visualization and an improved UI, the vendor still has a number of improvements relating to this on its roadmap.

#### **SOPHOS**

The Pentagon Abingdon Science Park Abingdon OX14 3YP United Kingdom www.sophos.com

Sophos offers IT security solutions for businesses, which include encryption, endpoint, email, Web, next-generation firewall (NGFW), and more. All solutions are connected with Sophos Central, Sophos's integrated cloud-based management console and backed by SophosLabs, its global network of threat intelligence centers. The company is headquartered in Oxford, U.K. In 2020, Sophos was acquired by private equity firm Thoma Bravo.

#### **SOLUTIONS**

Sophos Email Security uses a combination of detection methods and machine learning, to protect against malware, spam, phishing impersonation attacks, and data loss. It is available in conjunction with a full portfolio of security solutions managed through a single cloud management console. Sophos Email security relies on advanced machine learning capabilities from Sophos Labs, which enables it to detect both known and unknown malware without having to rely on signatures. The product can also identify sophisticated Business Entity Compromise (BEC) attempts through analysis of message body content and subject line to identify conversations with suspicious content. Sophos Email Security works with Microsoft Exchange Online, Microsoft Office 365, Google G Suite, and any other email solution as it only requires an MX record reconfiguration.

Sophos Email delivers the following key capabilities:

• Impersonation Protection – Sophos Email relies on a variety of technology methods, including machine learning, to identify impersonation attempts using VIP identities in order to commit fraud or other illegal activity. Utilizing the Sophos-owned deep learning neural network, Sophos advanced ML capabilities can analyze message body content and subject lines to identify conversations with suspicious content, specifically in relation to tone and wording which may be used to identify unusual requests from a sender.

- Advanced Threat Protection SophosLabs advanced threat detection technology including
  Sophos Sandstorm, deploys sophisticated machine learning technology to detect new and
  emerging suspicious payloads containing threats, malware, and unwanted applications, as
  well as high-level threats embedded in documents, including ransomware. Sophos Sandstorm
  detonates these files in series of virtual machines, simulating a real end user environment
  where behavior can be monitored, delivering safe documents, not just PDFs.
- Single Management Console Sophos Email is part of Sophos Central, a single integrated cloud-based management console that enables organizations to manage a layered defense including email, network security, next-generation endpoint and server protection with XDR, mobile device protection, encryption, wireless, a range of public cloud security solutions including cloud security posture management, and a human-led Managed Threat Response team.
- Cybersecurity Awareness Training Sophos Synchronized Security connects Sophos Email
  security with Sophos Phish Threat, its phishing attack simulation and security awareness
  training solution. It can identify users that have been blocked or warned from visiting high
  risk profile websites, and seamlessly enroll them into targeted phishing simulations and
  training.

#### **STRENGTHS**

- Sophos Email Advanced Threat reporting provides deep visibility into email attachments
  detonated in the Sophos cloud sandbox, with a breakdown of threat verdicts based on
  machine learning analysis, file reputation scores, VirusTotal results and Mitre ATT&CK
  Matrix tactics.
- Sophos Extended Detection and Response (XDR) enables IT security teams to integrate email threat intelligence alongside endpoint, server workload, and firewall data, enabling teams to compare email header information with other IoCs to better understand an incident.
- Sophos Email integrates with the Sophos Phish Threat service to provide phishing simulations and security awareness training in the same console. The Sophos Central console allows customers to link Sophos Email and Phish Threat to identify risky user behavior and enroll users directly into targeted security awareness training.

 Sophos Central offers a single integrated cloud-based management console to manage a layered defense which includes email, network security, next-generation endpoint and server protection with XDR.

#### **WEAKNESSES**

- Sophos email security does not yet offer as tight integration with Microsoft 365 as solutions from other vendors. The vendor has this on its roadmap.
- Customers indicated that Sophos reporting through Sophos Central, while easy to use and comprehensive, could offer greater reporting granularity.
- Sophos email security solutions are a best fit for organizations with small to medium sized IT teams, where management simplicity is a key purchase driver.

# **CLEARSWIFT BY HELPSYSTEMS**

1310 Waterside Arlington Business Park Theale, Reading RG7 4SA United Kingdom www.clearswift.com

Clearswift is a cybersecurity software company which offers solutions for detecting, inspecting, and securing critical data over email, web, and the cloud. In 2019, Clearswift was acquired by HelpSystems, a U.S.-based company, and its solutions are now part of the HelpSystems Data Security Suite.

#### **SOLUTIONS**

The **Secure Email Gateway** performs both email hygiene and advanced data loss prevention (DLP) and can be deployed as either hardware, software, hosted, or as a managed service.

The Gateway protects customers from new and existing malware using a combination of triple antivirus engines from Sophos, Kaspersky, or Avira, as well as a hosted sandbox from Sophos. All engines provide real-time cloud lookups which allow detection of the latest malware,

leveraging both heuristic and behavioral-based scanning. This is augmented by Clearswift's active code detection mechanisms that identify, and optionally remove, active code in multiple formats, including HTML, Office, PDF, and OpenOffice, allowing a safe document to be rapidly delivered to the recipient.

Anti-spam detection is provided by a layered solution utilizing IP reputation, grey-listing, anti-spoofing, RBL, SPF, DKIM, DMARC, sender validation and spam signatures, and offers 99%+ spam detection using two scanning engines. Clearswift offers message sanitization where URLs are checked against multiple real-time phishing and malicious URL feeds. It also applies heuristics to detect phishing exploits. URLs can be rewritten to redirect to browser isolation solutions to provide additional "time-of-click" protection.

The Gateway scans messages of any language in either direction based upon a granular policy. There is a policy engine that performs message and attachment decomposition and rebuilding. Format decomposition is provided without the use of third-party technologies and allows the Clearswift solution to modify the data in real time to ensure policy compliance. This functionality is known as Adaptive Redaction and covers three areas: data redaction, document sanitization, and structural sanitization.

Data redaction permits the modification of multiple formats, including text, HTML, PDF, Office, and OpenOffice, and allows textual modification by replacing keywords and phrases with asterisks "\*". For credit card information, all but the last 4 digits are replaced. Data redaction can also be performed on document footers/headers, watermarks, and tracking comments. As well as providing DLP, the bi-directional scanning also protects against unwanted incoming data acquisition, the receipt of which can cause issues for compliance with GDPR. Redaction of text in images is also available through optical character recognition (OCR). In this case the redacted text is "black-boxed" from the image (rather than a separate object being overlayed), to ensure it cannot be recovered.

Document sanitization allows for document properties such as author, subject, status, etc. to be removed. Other important information, such as data classification labels, can be whitelisted so they are excluded from the sanitization process. Sanitization can also remove potentially embarrassing change tracking comments which may carry data that could lead to a data breach. Anti-steganography is available to ensure that hidden data cannot be exfiltrated and hidden malware cannot enter the organization.

Structural sanitization identifies and removes active code from files such as HTML, Office, PDF, and OpenOffice. These files can carry VBA, ActiveX, Javascript, and OLE objects which could be used to launch an attack, including ransomware, on a message recipient. The Gateway can remove the active code from the file and deliver a safe version in real-time.

All policies can be applied on both inbound and outbound mail, which is key in adhering with compliance initiatives such as the EU's GDPR. Tight integration with Active Directory or LDAP services enables reduced operational costs.

The Gateway also supports multiple encryption types. Along with TLS as standard, customers can license the message encryption features of S/MIME, PGP, and Password formats, or they can license the Portal-based approach with can be used in both push and pull modes. Portal options are available for both cloud-based and on-premise solutions. An optional digital rights management (DRM) solution is also available.

The Gateway can be peered with other email gateways to form a "cluster" for scalability and availability purposes, and with Microsoft Exchange or Microsoft 365, to provide additional internal email inspection and DLP functionality, or with web gateways to provide a consistent policy across multiple communication platforms.

Clearswift also offers a variant of their Secure Email Gateway, **ARgon for Email**, which is designed to augment existing email security gateway solutions from other vendors with Clearswift's DLP and Adaptive Redaction functionality.

## **STRENGTHS**

- Clearswift offers Adaptive Redaction features in all its gateway products. This includes image redaction and anti-steganography features. Comprehensive Adaptive Redaction is a differentiator which is generally not available in competing products.
- The solution integrates with the Clearswift Secure Web Gateway to help combat increasingly sophisticated threats, such as Dynamic malware on URLs.
- Clearswift can scan internal email traffic as well as traffic that crosses the organizational boundary. This includes both on-premise Exchange installations, as well as Microsoft 365.

- HelpSystems' wider data security portfolio allows customers to also obtain secure file
  transfer, data classification, and digital rights management products from the same provider.
  Integration of these products into a centralized console is underway.
- Clearswift's Secure Email Gateway forms the basis of a complete DLP solution when coupled with Clearswift Secure Web Gateway and Endpoint solutions, customers can license additional advanced DLP features, including Optical Character Recognition (OCR), as needed.

#### WEAKNESSES

- Clearswift Secure Email Gateway would benefit from more support for customized threat feeds. The vendor is working to add threat feeds from other areas of the HelpSystem product portfolio (e.g. Agari, and Core Impact) in order to improve efficacy.
- Reporting could be improved, through more granularity and greater customization. The vendor has this on their roadmap through the development of a new product portal.
- HelpSystems purchased Agari in June 2021, and is still in the process of integrating a number
  of email fraud detection features into the Clearswift Secure Email Gateway to offer improved
  phishing and account takeover detection.
- Clearswift does not currently offer phishing awareness training. However, HelpSystems has recently announced the acquisition of PhishLabs, a leading developer of security awareness training solutions, so it is to be expected that these will become available to Clearswift Secure Email Gateway customers.
- Although Clearswift offers strong email security solutions, and the acquisition by HelpSystems has extended exposure to HelpSystems' customers in North America, the vendor is still less visible than other competing vendors in the secure email gateway market.

## **TRUSTWAVE**

70 West Madison St, Suite 600 Chicago, IL 60602 www.trustwave.com

Trustwave is a cybersecurity and managed security services provider focused on threat detection and response. It offers a comprehensive portfolio of managed security services, consulting services, email security and data protection technology. Trustwave is the global security arm of Singtel.

#### **SOLUTIONS**

Trustwave MailMarshal (formerly *Trustwave Secure Email Gateway*) delivers a range of email security and management features, based around business email compromise (BEC) protection and a flexible policy engine. MailMarshal threat protection is backed by the dedicated SpiderLabs team focused on email security research. The solution is available either through an on premise, or a cloud-based delivery platform. The MailMarshal Cloud platform is located globally to meet the needs of customers in their geographic locations.

**Trustwave MailMarshal 10.0.2** addresses email and cyber security threats through a single platform that offers advanced protection leveraging proprietary threat intelligence and research, policy configuration and in-depth data security and compliance management.

Trustwave MailMarshal On Premises, is an SMTP gateway solution that can be deployed with any internal or cloud-based company email system and provides an organization with the layered security solution it needs to manage email content, fight advanced threats such as phishing, ransomware, and business email compromise (BEC), eliminate spam, and transparently enforce email acceptable use policy and any other regulatory compliance requirements. The solution also goes beyond email security to provide a flexible policy engine which can be used as an operations tool with diverse use cases. The platform is accessible through an administrative interface, which provides auditing capabilities to manage configuration change processes and provide complete auditability.

**MailMarshal Cloud** is the SaaS based solution, which is deployed by redirecting SMTP traffic and filtering email at the Internet level before it reaches the network, delivering always-on, inbound and outbound email protection. Administrators can log into the Trustwave MailMarshal console and manage all users and account settings from a single, secure platform. The

MailMarshal Cloud platform supports automated onboarding processes which facilitate adoption by SMB customers.

Trustwave MailMarshal also provides a **Service Provider Edition** to meet the needs of organizations with multitenant requirements, designed to be hosted in the data centers of Service or Solution Providers.

Trustwave also offers several features that are available as bundled offerings, or optional add-ons to MailMarshal, as follows:

- Trustwave Secure Email Archiving Module is available to any MailMarshal customer. It is a cloud-based archiving module that offers variable retention policies, full eDiscovery console, continuity capability, and easy to use options for customers wanting to import existing archive data into the service, as well as options to export data out of the service.
- Trustwave Secure Email Encryption Module services allow customers of MailMarshal, both the on premise and SaaS versions, to send sensitive emails or confidential documents to recipients securely, without requiring the recipient to download or install any additional software. MailMarshal can be used to intelligently scan email for confidential information, based on customer-defined policies, as well as encrypt sensitive messages.
- Trustwave Malware Analysis Sandbox proactively prevents advanced malware and provides a safe environment in which to execute and observe malicious code or to encourage threats into exposing themselves. It helps reduce the amount of time between infection and remediation, mitigates the risk of breaches, and detects zero day or unknown attacks.
- MailMarshal Blended Threat Module uses multiple validation methods, including real-time behavioral analysis and content inspection as well as information from several industry standard sources, to identify and block sites that serve suspicious or malicious code. Since validation is performed in real time by a cloud service when a link is clicked, it is highly effective in catching and neutralizing new exploits for all users on any device from any location. It is a standard module in MailMarshal Cloud.
- MailMarshal Image Analyzer Module is a specialized image scanning and classification solution designed to automatically scan and sort images entering the organization via email into either an "offensive and pornographic" category or a "normal and acceptable" category.

This feature can help protect employees, customers, and suppliers from exposure to inappropriate or illegal content, can help reduce legal liability, and provides a better understanding of how the email system is conforming with acceptable use policies.

- Supported Antivirus Software Trustwave MailMarshal supports several third-party antivirus scanners to scan for virus or malware laden email, these include solutions from Sophos, McAfee, Kaspersky, and Bitdefender. Trustwave MailMarshal also fully supports a Yara-based malware engine that offers additional capabilities to detect malicious attachments. Sophos is included in all MailMarshal On Premises and Cloud bundles.
- MailMarshal Internal SMTP Toolkit (MIST) is a Microsoft Windows-based SMTP Toolkit that can handle complex SMTP routing and internal operational business needs via a scalable software solution. It addresses the needs of businesses may have moved to the cloud but still need to maintain systems that transmit email for operational purposes, or need to exchange emails directly with third party providers that integrate with business applications.

#### **STRENGTHS**

- Trustwave MailMarshal provides support for Azure Information Protection and Rights
   Management Services (RMS) this enables clients to enforce outbound email policy on Azure
   RMS encrypted email for Office 365. MailMarshal also provides the ability to decrypt email
   and enforce all RMS outbound policy controls before re-encrypting the email and sending it.
- Trustwave MailMarshal has a dedicated BEC engine that helps identify low volume, highly targeted spear-phishing attacks. The engine is regularly updated with intelligence from Trustwave's dedicated SpiderLabs team, and Trustwave's threat intelligence Fusion platform.
- Trustwave's MailMarshal platform, including BEC, malware and phishing protection, integrate with its Managed Threat Detection and Response Fusion platform.
- Trustwave offers a business workflow tool, which is an email management toolbox with advanced routing, autoresponders, header rewriting and external commands that help customers integrate their business processes to improve business workflow.

• Trustwave MailMarshal offers easy, automated onboarding and is attractively priced for organizations and service providers of all sizes.

#### WEAKNESSES

- While Trustwave MailMarshal currently offers many pre-configured reporting options, it
  would benefit from an increased level of reporting granularity and deeper customization
  options. The vendor has this on its development roadmap.
- Trustwave offers traditional security training education but does not currently offer the automated phishing awareness training and simulation that has become common in many competing offerings.
- While Trustwave offers strong BEC capabilities, it does not provide account takeover detection features.
- Trustwave does currently not offer Microsoft Office 365 API integration. However, the vendor has this on its development roadmap.
- Trustwave lacks market visibility. The vendor is working to address this.

# **MICROSOFT**

1 Microsoft Way Redmond, WA 98052 www.microsoft.com

Microsoft provides a broad range of products and services for businesses and consumers, through a portfolio of solutions for office productivity, messaging, collaboration, and more.

## **SOLUTIONS**

Microsoft Exchange Online Protection (EOP) is Microsoft's email security solution which is an integral part of Microsoft Office 365. It helps protect against spam and malware, and includes features to safeguard organizations from messaging-policy violations. It does not require client

software installation but is activated by changing the customer's MX record. It can be deployed in the following scenarios:

- Standalone where it provides cloud-based email protection for on-premises Microsoft
  Exchange Server environments, legacy Exchange Server versions, and any other on-premises
  SMTP email solution.
- *Microsoft Exchange Online* EOP is an integral part of Microsoft Exchange Online which is the email service component of Office 365.
- *Hybrid* EOP can be configured to protect and control email routing in a mixed environment of on-premises and cloud mailboxes.

Customers can add **Microsoft Defender for Office 365** (formerly Office 365 Advanced Threat Protection), **Data Loss Prevention (DLP)**, and **Office 365 Message Encryption** for a more fully featured security solution.

• Microsoft Defender for Office 365 – is a cloud-based email filtering solution that provides protection against phishing, malware and spam attacks. It offers near real-time protection against high-volume spam campaigns, with DKIM and DMARC support. It also adds protection against "zero-day" attachments and harmful URL links, through real-time behavioral analysis and sandboxing. It can be deployed as an add-on to on-premises Microsoft Exchange Server deployments, Microsoft Exchange Online cloud mailboxes, or hybrid environments. It is available in 2 plans.

Microsoft Defender for Office 365 Plan 1 provides the following capabilities:

- Safe Links provides time-of-click verification of URLs in email messages and Office files.
- O Safe Attachments provides zero-day protection against unknown malware and viruses. Suspicious messages and attachments are routed to a special environment where machine learning and analysis techniques are used to detect malicious intent. If no suspicious activity is detected, the message is released for delivery to the mailbox.

- o ATP for SharePoint, OneDrive and Microsoft Teams can be turned on to help detect and block malicious files in team sites and document libraries.
- Anti-phishing protection detects attempts to impersonate user and internal or custom domains. It applies machine learning to block phishing attacks.
- Advanced reporting dashboard provides real time threat detection reports with recommendations and alerts to imminent threats.

# Plan 2 adds the following capabilities:

o Threat investigation and response tools – which include Threat Trackers to deliver intelligence on prevailing cybersecurity issues; Threat Explorer for real-time reporting detection; Automated Investigation and Response (AIR) to support automated investigation and response to well-known threats; Attack Simulation to help identify vulnerabilities; and Campaign Views to identify and categorize phishing attacks.

Microsoft Defender for Office 365 Plan 1 is included in Microsoft 365 Business Premium. Microsoft Defender for Office 365 Plan 2 is included in Office 365 E5, Office 365 A5, and Microsoft 365 E5. Both Plan 1 and Plan 2 are also each available as an add-on to certain subscriptions. A *Safe Documents* feature, which allows viewing of documents in a protected state, is only available with the Microsoft 365 E5 plan, or Microsoft 365 E5 Security licenses.

- Data Loss Prevention (DLP) capabilities are available natively in the Office client and SharePoint Online and OneDrive for Business. The Microsoft Compliance Center provides a central policy management console that allows administrators to manage DLP policies across different services. Data Loss Prevention is a premium feature that requires an Enterprise Client Access License (CAL).
- Office 365 Message Encryption allows users to send encrypted messages to other users inside or outside their organization, regardless of the email service in use e.g. Outlook.com, Yahoo, Gmail, or other. Designated recipients of encrypted messages need to enter a simple one-time passcode to read the message and can send encrypted replies. Office 365 Message Encryption combines email encryption and rights management capabilities, powered by

Azure Information Protection. Mobile apps for iOS and Android also allow viewing of encrypted messages on mobile devices.

### **STRENGTHS**

- Microsoft Exchange Online Protection and add-on services for Defender for Office 365, DLP and encryption come mostly native, free of charge with many Microsoft Office 365 plans, where an additional fee is required it is usually very small.
- Microsoft is investing heavily to address threats posed by spam, spoofing, phishing attacks, as well as blended attacks through attachments and harmful URLs.
- Microsoft Exchange Online Protection and Defender for Office 365 solutions are easy to deploy and administer for customers of all sizes.

#### WEAKNESSES

- While Microsoft has been investing heavily in its anti-malware, antispam, phishing, spoofing
  and zero-day protection capabilities, customers still report high degrees of spam, malware
  and other forms of attack. Most customers tend to deploy additional email security solutions
  from other security vendors.
- Microsoft offers many different plans at different price points, but it is sometimes difficult for customers to understand exactly what security features they are getting with what plans.
- Microsoft offers a rich ecosystem of security solutions, however, integrating all components
  correctly and maintaining them fully integrated throughout Microsoft's continuous upgrade
  cycle can be daunting for many organizations.
- As a purely cloud-based solution, Microsoft Defender for Office 365, is not applicable to customers with purely on-premises deployments or air-gapped networks.
- Microsoft customers we spoke to as part of this research, often indicated that Microsoft's customer support organization is not sufficiently knowledgeable when it comes to email security issues.

## TREND MICRO

Shinjuku MAYNDS Tower, 1-1, Yoyogi 2-Chome, Shibuya-ku Tokyo, 151-0053, Japan www.trendmicro.com

Founded in 1988, Trend Micro provides security solutions for organizations, service providers, and consumers. Trend Micro's cloud-based Smart Protection Network brings together threat reporting and analysis based on a worldwide threat assessment infrastructure. Trend Micro is publicly traded.

#### **SOLUTIONS**

Trend Micro offers a comprehensive line of email security solutions for enterprises that include antivirus, antispam, anti-spyware, and anti-phishing, along with compliance and content filtering features. The email security solutions work in conjunction with the vendor's XGen Security functionality, which combines machine learning and other techniques, to protect against ransomware and advanced attacks. The email solutions integrate with Trend Micro Apex Central for central management and threat sharing with other security layers to improve visibility and overall protection. Email security solutions also integrate with Trend Micro's Vision One XDR (Extended detection and response) managed service which offers correlated detection and response across email, endpoints, servers, cloud workloads, and networks. Trend Micro email security solutions are available as cloud or on-premises solutions in different packages, as follows:

# **Cloud-based Solutions:**

- Email Security is a cloud-based service that offers protection against spam, malware, phishing, ransomware, and advanced threats before they enter the customer network. It protects Microsoft Exchange, Microsoft Office 365, Google Gmail, and other hosted and onpremises email solutions. It offers Business Email Compromise (BEC) protection and offers flexible user profile definitions. It is available in two bundles: Standard, and Advanced (for sandboxing and greater AI capabilities).
- Smart Protection for Office 365 helps protect against email risks by combining Cloud App Security and Email Security Advanced. It helps prevent phishing and Business Email

Compromise (BEC) attacks and offers antivirus, anti-malware, heuristics, and dynamic sandbox analysis to detect ransomware and zero-day malware. It also provides DLP and advanced malware protection for OneDrive for Business, SharePoint Online, Box, Dropbox, and Google Drive.

- **Phish Insight** is a free phishing simulation service that lets organizations test and educate employees on recognizing and avoiding phishing attacks.
- Cloud App Security is a Trend Micro's Cloud Access Security Broker (CASB) solution that secures email and cloud sharing in Office 365, Gmail, Box, Dropbox, and Google Drive. It relies on artificial intelligence and machine learning to uncover ransomware, Business Email Compromise (BEC), and other attacks.

## On-premises Solutions:

- **Deep Discovery Email Inspector** is an email appliance that provides advanced threat protection against targeted attacks.
- InterScan Messaging Security is an on-premises gateway that defends against spam, malware, ransomware, and targeted email attacks.
- ScanMail Suite for Microsoft Exchange offers mail server security for Microsoft Exchange protecting internal and external email against phishing, ransomware, and targeted attacks.
- ScanMail Suite for HCL Domino (formerly IBM Domino) offers malware and spam protection as a native Domino server application.
- **PortalProtect for Microsoft SharePoint** on-premises software for SharePoint server, providing antivirus, content filtering, and data loss prevention.
- IM Security for Microsoft Skype for Business Server (now Teams) on-premises software to protect instant messaging from malware, web threats, content violations and data loss.

Trend Micro offers a number of versions of its security solutions tailored to small, medium, and large organizations. Trend Micro also offers a stand-alone archiving and compliance solution.

#### **STRENGTHS**

- Trend Micro offers a comprehensive suite of email security solutions in all form factors and a variety of different packages to fit the needs of customers of all sizes.
- Trend Micro's email security solutions integrate with its endpoint and web security solutions to offer stronger enterprise-wide protection.
- Trend Micro email security solutions are easy to deploy and manage.
- A stand-alone encryption solution is available for customers looking for extra security.

#### **WEAKNESSES**

- Trend Micro sells email security in a variety of packages, but not all its email security solutions integrate fully with its Advanced Threat Prevention (ATP) solutions for real-time threat correlation.
- Trend Micro offers basic DLP functionality, but only at an extra cost.
- Trend Micro email solutions track URL usage, but do not support preventive actions such as url replacement or quarantining.
- Customers indicate that administration and policy setup for Trend Micro email security solutions is somewhat lacking and could be improved, particularly for hybrid gateway scenarios.
- Trend Micro's email security portfolio shows signs of aging and does not appear to be updated as frequently as those of its competitors.

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Cloud Business Email Market, 2021-2025	Apr. 2021	\$3,000.00
Corporate Web Security Market, 2021-2025	Apr. 2021	\$3,000.00
APT Protection Market, 2021-2025	Apr. 2021	\$3,000.00
Information Archiving Market, 2021-2025	Mar. 2021	\$3,000.00
Email Statistics Report, 2021-2025	Feb. 2021	\$3,000.00
Instant Messaging Statistics Report, 2021-2025	Feb. 2021	\$3,000.00
Social Networking Statistics Report, 2021-2025	Jan. 2021	\$3,000.00
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Endpoint Security Market, 2020-2024	Nov. 2020	\$3,000.00
Secure Email Gateway Market, 2020-2024	Nov. 2020	\$3,000.00

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# **Upcoming Publications:**

Title	To Be Released	Price*	
Secure Email Gateways Market, 2021-2025	Dec. 2021	\$3,000.00	
Endpoint Security Market, 2021-2025	Dec. 2021	\$3,000.00	
Enterprise DLP Market, 2021-2025	Dec. 2021	\$3,000.00	

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