



A crucial layer of security for prevention of weaponized email attacks

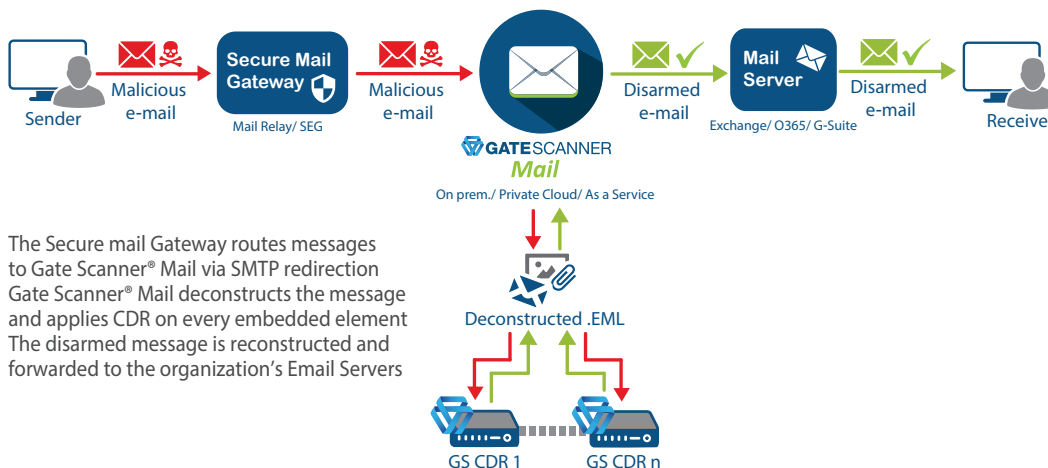
The State of Affairs

Email is a critical communication channel leading it to being the primary attack vector on organizations. Cyber criminals exploit the human factor creating highly targeted socially engineered attacks using increasingly sophisticated threats. Weaponized emails containing Zero Days and undetectable malicious code continually evade the detection measures provided by Secure Mail Gateways (SEG) leading to ongoing data breaches and ransomware incidents. A new approach is needed, focusing on prevention.

GateScanner® Mail

Prevention means every incoming email must be treated as suspicious. GateScanner® Mail adds a proven and award winning layer of security to the organization's existing Mail Relay/SEG. Instead of relying on detection, GateScanner® Mail Content Disarm and Reconstruction (CDR) ensures security by transforming the entire email message into a neutralized (harmless) and trustworthy copy. GateScanner® CDR prevents advanced undetectable malicious code attacks including APTs and ransomware, while maintaining full usability, visibility and functionality.

GateScanner® Mail System Typical Deployment



The Secure mail Gateway routes messages to Gate Scanner® Mail via SMTP redirection. Gate Scanner® Mail deconstructs the message and applies CDR on every embedded element. The disarmed message is reconstructed and forwarded to the organization's Email Servers.

GateScanner® Mail Features

- ✓ **Proprietary Email Deconstruction** according to RFC 2822 seeks deeply hidden threats in the email body, embedded elements and attachments
- ✓ **Deep Threat Scans** with multiple AVs and multiple True Type engines, dramatically increases detection rates and prevents file spoofing
- ✓ **Disarms Files** by removing potentially malicious elements, scripts, macros, links, while keeping trusted content and restructuring files to disrupt the integrity of deeply hidden malicious code
- ✓ **Scans Password Protected Files** with a secure mechanism allowing users to supply the file passkey, preventing threat evasion by using encrypted files
- ✓ **Verifies Digitally signed PDF files** keeping the original document and creating an authorized copy of the disarmed file
- ✓ **Integrates External Security Solutions** such as Sandboxes, Next Gen AVs, leveraging the organization's existing security assets

Proven Technology

Founded in 2013, Sasa Software successfully protects governmental agencies, defense contractors, financial institutions, public utilities and healthcare enterprises.

Independent tests demonstrate GateScanner® prevents up to 99.9% of undetectable threats*

Industry Recognitions

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Gartner "Cool Vendors in Cyber-Physical Systems Security", Katell Thielemann, et al, 21 April 2020

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GateScanner® Mail Solution Features

- ✓ Seamless integration with commercial Secure Mail Gateway via SMTP redirection
- ✓ Protects on premise and cloud based Email Servers including O365
- ✓ Customized policies for multiple domains, users groups and individual addresses, interfacing with Active Directory
- ✓ Customized reconstruction of messages according to exceptions, custom user notifications
- ✓ Supports message archiving and quarantining
- ✓ Includes a rich reporting system detailing scan activities, performance, exceptions, with drill-down to specific events
- ✓ Easily and highly scalable without system interruptions, built in Active/Active load balancing, supports multiple GateScanner® Front-End servers for extreme capacity
- ✓ Central administration, interfaces with SIEM/Syslog, automated updates

GateScanner® Mail Performance (Full CDR: Deep Scans + Email Disarm)

- ✓ **Scanning capacity:**
Total capacity with one GS Mail Front End:
Up to 100,000 emails/hour with 7 GS Engines (50,000/hr with 4 GSE; 20,000/hr with 2 GSE)
Based on emails with 15% attachments (1/3 Small < 1Mb, 1/3 Medium 1-5Mb, 1/3 Large 5-15Mb)
Tested using optimized resources
- ✓ **Average Scan time:** 1-3 minutes / message

GateScanner® Mail Specifications

- ✓ **Deployment Options:** on premise as a physical appliance or virtual machine, private cloud
- ✓ **GateScanner® Mail Front-End:** Installed on a Windows Server (2012R2)
Requirements: 8 vCores, 16 GB RAM, 600 GB HDD (SSD recommended)
- ✓ **GateScanner® Engines:** Supplied as a preconfigured virtual appliance based on WIN Embedded
Requirements: 4 vCores, 8 GB RAM, 60 GB SSD
- ✓ **Supported file-types:**
Supports full CDR for hundreds of file type combinations, including the entire suite of MS Office, PDF, media files (images, audio, video), AutoCad, Hanword (HWP), Archives, PST, .EML, installation files, XML, HTML, other text files, medical imaging files (DICOM), and customized files

Email Security Comparative

Benefit	Secure Mail Gateway	Gate Scanner® Mail CDR
Anti-Spam, Anti Phishing, URL Filtering	✓	-
Known Threat Scans	✓	✓
Unknown Threat Detection	-	✓
Undetectable Threat Prevention	-	✓

Gate Scanner® Mail is a powerful technology for prevention of advanced and undetectable malicious attacks in emails

Sample Email Deconstruction

The image shows a sample email deconstruction. On the left, a screenshot of an email client displays an email from 'Sasa Software' with the subject 'Introduction'. A blue arrow points from the email content to a list of deconstructed files on the right. The list includes:

- File_data.xml
- GS_ScanLog.xml
- Sasa Software Executive Overview Sept 2016...
- Sasa Software Executive Overview Sept 2016...
- image002.png
- image002.png_H.txt
- image003.png
- image003.png_H.txt
- image007.jpg
- image007.jpg_H.txt
- BODY_3.txtbody
- BODY_3.txtbody_H.txt
- BODY_4.htmlbody
- BODY_4.htmlbody_H.txt
- multipartalternative2.txt_H.txt
- multipartmixed0.txt_H.txt
- multipartrelated1.txt_H.txt

One message, multiple attack vectors
An email message as deconstructed by Gate Scanner® Mail