

A photograph of a city skyline at night, with illuminated buildings and streets, overlaid with a semi-transparent blue filter.

# Sentriion Message Processors

## Scaleable Platform for Enterprise Messaging Infrastructure and Applications

### Overview

Email has become the primary media to drive core business communications and in today's complex business world of acquisitions, mergers, compliance regulations and the never ending onslaught of malicious software, information technology (IT) organizations are struggling to keep up with the demands on messaging infrastructures. The requirements for email infrastructure, sophisticated message routing, content protection, security, and network performance have changed dramatically. In addition to traditional inbound spam and virus protection, internal policy and routing decisions and outbound risks associated with confidential information leaks have become critical issues for organizations.

Given today's economic realities, IT Administrators are looking for ways to address all of these challenges while achieving a compelling Return-on-Investment on their messaging infrastructure investments. They seek solutions that address the requirements of the Internal Policy and Message Routing backbone, External Protection and Email Gateway Security, as well as provide a platform for applications and management of hybrid cloud/on-premises messaging infrastructure. The solution must be flexible, easy-to-manage and provide scalable and reliable email delivery, virus and spam protection, advanced content filtering, fully integrated encryption, and myriad application choices for future messaging requirements.

### Sentriion Message Processors

Sentriion Message Processors are high-performance message security appliances that provide a unified solution to the complex problems of hybrid infrastructures and policy-based message handling and routing. Sentriion is available as a hard appliance (Sentriion MP) and a virtual appliance (Sentriion MPV). Global 2000 organizations are using Sentriion Message Processors to modernize their messaging infrastructure and to reduce the cost and complexity of securing and managing their corporate email.

### Sentriion Message Processors

- External Protection/Gateway Management
- Inbound Message Processing
- Internal Policy and Routing
- Outbound Data Leak Prevention
- Intra-company Groupware Routing and Policy Enforcement
- SMTP Backbone for Hybrid Architectures

## Sentrion is a Purpose-Built, High-Performance Message Processing Appliance for:

- Managing Hybrid Architectures: Fabric for intelligent cloud/on-premises message processing
- External Protection: Bi-directional message encryption and sophisticated connection controls prior to inbound processing
- Inbound Message Processing: Spam, virus malicious software protection
- Internal Policy and Routing: Intelligent policy-driven message handling and routing
- Outbound Data Leak Prevention: Highly accurate, in-line content monitoring and enforcement to prevent data loss and compliance breaches
- Message Management for Multiple and Mixed Groupware Environments: Enforces intra-company/division content policies and provides policy-based message routing for MS Exchange, IBM Lotus Domino, etc.

Policy applications can be added to Sentrion to monitor and enforce outbound messages for:

- Corporate governance
- Regulatory compliance
- Privacy violations
- Data leak prevention

## Sentrion Message Processing Platform

The foundation for all Sentrion Message Processors is the Sentrion Message Processing Platform. All Sentrion appliances and applications rely on the core components of the platform as shown in Figure 1.

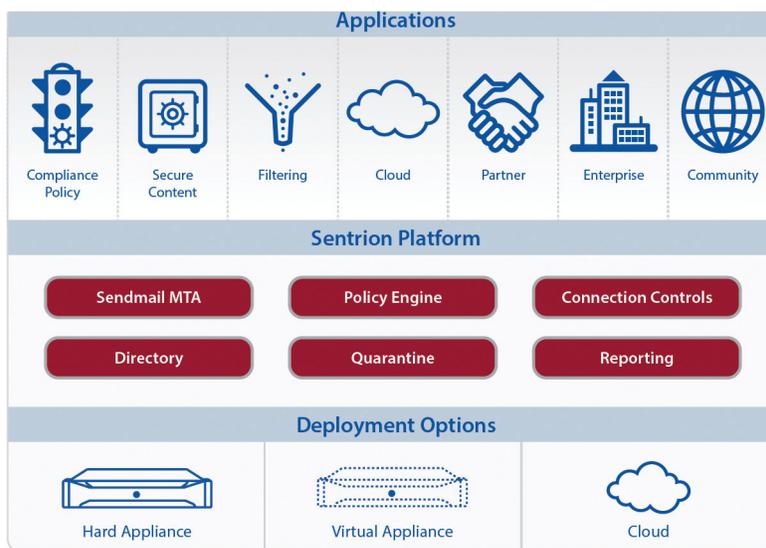


Figure 1. Sentrion Message Processing Architecture.

## Features and Functionality

The Sentrion Appliance Key Functions Include:

### Enterprise-class high-performance architecture

- 64-bit hardware and operating system
- Available in multiple deployment options
- 24/48GB Memory

- RAID Storage
- Enterprise clustering and scalability
- LDAP directory services and integration

#### **Configuration Version Control**

- Track and manage all system configuration changes with support for full roll-back and configuration tagging
- Make incremental configuration changes; commit and deploy to multiple hosts with a single operation

#### **Role-based Access Control and User Interface**

- Gives individual business stakeholders custom reporting views
- Provides collaboration workflow between functional groups

#### **Integrated End-User Spam Quarantine**

- Integrated Spam Quarantine for end-user disposition of spam as well as other suspect email

#### **Splunk Powered Reporting**

The Splunk IT Search Engine is embedded as a core component of the Sentrion Message Processing Engine for out-of-the-box base reporting and message tracking. The Splunk-powered Sentrion MPE reporting engine provides a predefined set of standard messaging reports such as:

- Delivery Status
- Top Attachment Types
- TLS Connections
- Message Categorization Summary
- Policy Summary
- Virus and Spam Summary
- Top Senders and Recipients
- And more...

An optional Enterprise Reporting application, Premium Reporting Powered by Splunk, is available from the Sentrion Application Store and provides more advanced reporting requirements including the ability to customize dashboards, reports, searches and more.

#### **Optional Applications from the Sentrion Application Store**

The Sentrion platform makes it easy to add applications to the messaging infrastructure as requirements change. The Sentrion Application Store offers dozens of different messaging application applications in the following categories:

- Compliance Policy
- Secure Content
- Filtering
- Cloud
- Partners
- Enterprise
- Community

Here are just a few examples. Please visit [www.SentrionAppstore.com](http://www.SentrionAppstore.com) for more information.

## Cloud Apps

- Email Security, Archiving, and Continuity, Powered by Mimecast
- Sentrion Managed Service

## Regulatory Compliance Policies

- Highly accurate out-of-the-box policies for compliance, acceptable use and confidential information protection
- Bundled policies include: Sarbanes-Oxley, Gramm-Leach-Bliley, CA SB1386, ITAR, Explicit Language, PCI, and more

## Incidence Remediation and Reporting

- Enables both technical and business-level views into policy-based events for both reporting and remediation
- Enterprise clustering support provides integrated and centralized reporting for incident trends and compliance
- Detailed drill-down reports for greater incident and attack analysis
- Remediation workflow for incident response best practices
- Quarantine provides a unified view for both administrators and end-users to inspect and remediate spam and other message deemed to be held for user analysis

## Document Fingerprinting

Register sensitive files to Sentrion for whole/ partial match scanning of all messages leaving the network. Enables detection and protection of confidential data such as legal disclosures, financial data, strategic planning, or any other sensitive information.

## Multiple best-of-breed Anti-spam Applications

- Provides several best-of-breed anti-spam technologies to be used in conjunction for superior accuracy and protection
- Network-based and Signature-based filtering
- Sendmail Enterprise anti-spam for greater than 99.9 percent effectiveness — combines multiple spam technologies with custom policy

## Multiple best-of-breed Anti-virus Applications

- Anti-virus protection
- Zero-hour virus detection

## Reputation Services

- IP and Domain-based reputation services detection by leveraging metrics on the sender domain's email behavior, collected from several sources
- Integrated domain-based reputation intelligence from Return Path to identify sender domains as trusted, legal entities with Domain Keys Identified Mail (DKIM) signatures
- Increases security by filtering the majority of email-borne viruses, worms and trojans at the Gateway before entering the network
- Saves bandwidth and enhances performance and guarantees better Quality of Service for the remaining traffic

## Policy-driven Message Encryption

- Enables administrators to provide secure messaging of confidential or otherwise critical information to satisfy business and compliance requirements without affecting user behavior — using TLS, S/MIME, and Totemo for multiple encryption options

- In-line, single appliance message encryption with no client software
- Reduces overall administration, infrastructure and integration requirements by consolidating all encryption functions into a single appliance
- Minimizes end-user dependency by enforcing enterprise encryption policy at the gateway and/or internal policy layer through Sentrion's intelligent policy engine

### Premium Reporting Powered by Splunk

This application provides additional premium reporting functionality on top of the core Splunk reporting that comes standard with Sentrion MPE. It provides fully scalable and flexible reporting tools for complete visibility of the Sentrion environment, as well as integration support into existing enterprise reporting systems, including the ability to:

- Create customized, site-specific reports, dashboards, automated alerts, searches and more
- Provide complete, end-to-end tracking, searching, and reporting across message stores such as Microsoft Exchange and Lotus Notes, Sentrion internal and gateway layers, third-party archival solutions, and more
- Interface directly with your organization's Enterprise Splunk reporting view for enterprise compliance, security and business intelligence

### Sentrion MP Specifications

Component	Sentrion MP 371	Sentrion MP 372	Sentrion MP 372X
Height	1U	2U	2U
Hardware Architecture	64 bit	64 bit	64 bit
Software Architecture	64 bit	64 bit	64 bit
CPU	1x6 Cores Intel Xeon E5-2620, 2.00 GHz, 15M Cache, 72GT/s Q@PI, Turbo, 6C, 95W	2x6 Cores Intel Xeon E5-2620, 2.00 GHz, 15M Cache, 72GT/s QPI, Turbo, 6C, 95W	2x6 Cores intel Xeon E5-2620, 2.00 GHz, 15M Cache, 72GT/s QPI, Turbo, 6C, 95W
DVD Drive	Yes	Yes	Yes
RAM	24GB (6x4GB) RDIMM, 1333MHz, Low Volt, Single Rank	48GB 1600 MHz (6x8GB), Dual Ranked	48GB 1600MHz (6x8GB), Dual Ranked
Operating System Disks	2x 300GB @ 10K RPM SA SCSI 6Gbps - 2.5" RAID - 1	2x 300 GB @ 15K RPM SA SCSI 6Gbps - 3.5" RAID -1	2x 300GB @15K RPM SA SCSI 6Gbps - 3.5" RAID - 1
Data Disks	Share with Operating System	4x 300 GB @ 15K RPM SA SCSI 6Gbps - 3.5" RAID -5	4x 600 GB @ 15K RPM SA SCSI 6Gbps - 3.5" RAID -5
RAID	RAID-1 H710 512MB Controller	RAID-1 and RAID-5 H710 1GB controller	RAID-1 and RAID-5 H710 1GB controller
On-board NIC	Broadcom 5720 QP 1Gb Network Daughter Card	Broadcom 5720 QP 1Gb Network Daughter Card	Broadcom 5720 QP 1Gb Network Daughter Card
Add-on NIC	Intel Ethernet 1350 DP 1Gb	Intel Ethernet 1350 DP 1Gb	Intel Ethernet 1350 DP 1Gb
Remote Management	iDAC7 Enterprise	iDRAC6 Enterprise	iDRAC6 Enterprise
Power Supply	Dual, Hot-plug, Redundant PSUs 495W	Dual, Hot-plug, Redundant PSUs 750W	Dual, Hot-plug, Redundant PSUs 750W

Figure 2: Also available as a virtual appliance with Sentrion MPV. See the Sentrion MPV fact sheet for additional specifications.

## Benefits

- Purpose-built, high-performance architecture gives proven high ROI
- Provides accuracy and protection where 80 percent of security and compliance violations occur – in inbound and outbound email communications
- Compliance policies enable immediate policy enforcement based on industry best practices
- Centralized policy management for global enterprise policy enforcement and incident remediation without interrupting business process workflow
- Intuitive user interface that does not require any training or extensive prior knowledge of the Sentrion components
- Quickly and accurately make key messaging related decisions and conclusions based on extensive reporting and data availability
- Satisfy both administrators and management with detailed, yet intuitive reporting templates
- Platform for future growth and easy integration with existing messaging infrastructure
- Optional add-on applications provide flexibility for changing requirements
- Enterprise-scale with proven performance and reliability
- Easy-to-manage unified architecture for centralized management
- Reduce on-going administration of the hardware, OS and applications by monitoring all hosts through a centralized interface and proactive alert notifications
- Advanced policy management to map any compliance or enterprise security policy

## Summary

Sentrion appliances are architected to enable enterprises to modernize messaging infrastructure with an intelligent email backbone for policy-based message routing and managing system generated communications between groupware systems, deployed on-premise or in the cloud, and the Internet. Since 1982, thousands of enterprises around the world have relied on Sendmail open source and the award winning Sentrion hard and virtual appliances, with optional plug-in messaging applications from the Sentrion Application Store for gateway management, inbound threat protection, outbound data leak security, full message content scanning for regulatory compliance, and critical customer communications.

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Proofpoint, Inc.  
892 Ross Drive, Sunnyvale, CA 94089  
Tel: +1 408 517 4710  
[www.proofpoint.com](http://www.proofpoint.com)