

HIGHLIGHTS

Minimize the impact of email abuse with a high-performance email security solution from Cloudmark and Sun

Protect against spam, phishing, and viruses with innovative Cloudmark fingerprinting technology

Take advantage of Sun Fire™ T1000, T2000, and T5120 servers with CoolThreads™ technology for greater message throughput

Gain nearly twice the messaging throughput of other hardware solutions

Reduce CPU utilization, increase filtering accuracy, and maximize system performance Sun and Cloudmark High-performance messaging

High-performance messaging security technology

Increasingly sophisticated spam, phishing, and virus attacks impact messaging infrastructure and pose serious security risks for fixed and mobile service providers and enterprises. Unchecked messaging abuse can impact subscriber satisfaction, resulting in churn and lost revenues. Traditional anti-spam technologies fall short of solving this problem, failing to adequately block unwanted messages or deliver needed performance. The combination of innovative Cloudmark Authority messaging security software and Sun Fire™ servers with CoolThreads™ technology offers industry-leading filtering accuracy and performance to counter all forms of messaging threats.

Why traditional anti-spam messaging technologies are not effective

Most anti-spam technologies use a combination of network and content analysis to detect unwanted messages. Network analysis was one of the first anti-spam methods developed for carriers, typically consisting of real-time blacklists (RBLs) that identified and blocked the IP addresses of abusive mail servers. Leveraging spam-sending zombies and botnets, spammers are able to hide their identity under the cloak of thousands of mail servers and evade RBLs. Likewise, rules-based content analysis, which searches for specific words or text strings, is ineffective against many types of foreign language or non-text spam. This method is also computationally-intensive, as ever-growing rule sets have to be passed through each and every message for spam identification. What's needed is a technology that can rapidly identify all forms of abuse without high CPU costs.

Cloudmark technology solves the messaging abuse problem

Cloudmark Authority, the market's leading carrier-grade messaging security solution, blocks over 98 percent of abusive messages with near zero false positives. Using a combination of Advanced Message Fingerprinting™ algorithms and real-time feedback from millions of trusted reporters in 190 countries, Cloudmark Authority is able to identify spam, phishing and viruses in all forms, formats and languages.

As each message arrives, Cloudmark's fingerprinting algorithms generate identifiers ("fingerprints") that represent unique aspects of the message. Once a fingerprint has been determined to be associated with a verified attack, all current and future messages containing that fingerprint will be immediately blocked. As a result, Cloudmark is able to respond to messaging threats and their variants much more rapidly than traditional anti-spam solutions.

Higher throughput with fewer CPU cycles

Unlike traditional content analysis solutions, Cloudmark's fingerprinting technology only requires a minimum amount of CPU overhead to scan each message. Cloudmark's fingerprinting algorithms reduce each message to lightweight fingerprints that are stored in a local cache which is updated every 45 seconds. Rather than run heavy rules across each message, Cloudmark Authority just performs a simple lookup against the cache to check whether the message should be blocked or allowed to pass to the recipient. This approach results in significantly higher message throughput and CPU savings of up to 90 percent.

Take advantage of Sun Fire™ servers with CoolThreads™ technology

Cloudmark solutions become even more compelling when paired with Sun Fire T1000 and Sun Fire T2000 servers that incorporate the UltraSPARC® T1 and T2 processor with CoolThreads technology. Designed for Web, application tier, and multithreaded workloads like Cloudmark solutions, the UltraSPARC T1 and T2 processor uses an innovative design that provides high thread-level parallelism and increased application throughput through chip multithreading (CMT) technology. With up to eight cores per processor and four threads per core, the UltraSPARC T1 processor provides up to 64 simultaneous threads in a low power, low heat processor.

The UltraSPARC T1 and T2 processor architecture is optimized for thread-intensive software that requires CPU to memory bandwidth and relies on integer and memory operations for the majority of system calls. Such a design enables Sun Fire servers that utilize the UltraSPARC T1 processor to provide an incredible boost in performance to Web servers, databases, and other services that spend significant time moving vast amounts of data on and off the network.

Experience extreme performance

Sun Fire servers with CoolThreads technology with Cloudmark Authority =enables extremely high message throughput. In fact, Cloudmark solutions running on Sun Fire servers with CoolThreads technology provide almost twice the message throughput of other hardware solutions. Service providers with Cloudmark Authority software deployed on Sun Fire T1000 or Sun Fire T2000 servers typically experience message throughput speeds of over 1,000 messages per second.

Cloudmark and Sun

Cloudmark, Inc. specializes in carrier-grade messaging security solutions that prevent messaging abuse from impacting infrastructures, operations, and users. A leader in email security, Cloudmark provides messaging solutions to over 100 tier-one service providers around the world, and is on the board of the Messaging Anti-Abuse Working Group (MAAWG) and the Anti-Phishing Working Group (APWG). For over two decades, Sun has continued to provide innovative platforms based on industry-leading processors that help form the foundation for high-performance infrastructures, service-oriented architectures, and services. Together, Cloudmark and Sun offer a powerful and fast solution that helps service providers and enterprises maintain a secure messaging environment.



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