MAIL-BLOCK Corporate Security Enterprise Edition 2.0

Mail-Block uses (VERGL) Verified Embedded Random Generated Link Technology

Server Platform
Windows 2000 Advanced Server
Windows NT 4.0
Red Hat Linux 8.0 (Psyche)
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Sun Solaris 9
IBM AIX Unix
Apple Macintosh OSX Jaguar
Apple Macintosh OSX Jaguar
Mandrake Linux 9.1
Debian Linux 3.0

Database Software
SQL Server 2000
MySQL 4.0.1
Oracle 9i
IBM DB2 version 8.1
FileMaker Pro 6.0
Sybase Adaptive Server 12.5

Mail-Block Enterprise Server Win32 and Java Edition is a standalone server based application designed to block unsolicited, junk email from reaching employees, customers and your users inboxes. Mail-Block's unique, randomly generated, embedded message link keeps spammers from overloading mail servers with unnecessary delivery of junk mail. Mail-Block server handles all the delivery requests, without bothering the mail server unless a legitimate email message is to be delivered to a valid user.

Mail-Block© becomes MX record (email exchanger) for the domain or domains that it's configured to protect. All incoming email must pass through the Mail-Block© server to be verified against list of mail users in database. If user does not exist, email is rejected at server level. If user is valid on system, Mail-Block© proceeds to verify incoming mail against the verified user's "safe list" in the database. If email recipient has agreed to receive email from the sender, the message is allowed to pass through to the regular mail server. All of this is done using a local area network (LAN) connection to improve the performance and to add a secondary anti-relaying security mechanism.

Mail-Block Software - Minimum System Requirements:

Windows®

- Intel Pentium® III/IV/XEON® processor at: 1Ghz or Faster (Dual/Quad Processors recommended)
- 512MB RAM (1024MB recommended)
- 2 - 40GB IDE Hard Drives (7200 @ ATA133) (SCSI Array Recommended for maximum performance)
- Microsoft Windows® 2000 Advanced Server/Datacenter OR Microsoft Windows® 2003 Server/Enterprise
- Microsoft SQL® 2000

Linux® (Beta – Not available for Public)

- Intel Pentium® III/IV/XEON® processor at: 1Ghz or Faster
  (Dual/Quad Processors recommended)
- 512MB RAM
  (1024MB recommended)
- 2 - 40GB IDE Hard Drives (7200 @ ATA133)
  (SCSI Array Recommended for maximum performance)
- Only tested with (Redhat Linux 8+/Solaris 8)
- MySQL 4.xx/Microsoft SQL® 2000 (using freetds and perl DBI, DBI::Sybase)

Benchmark System Specifications: 2 Machines @ Capable of Approx: 100,000 Users

Windows®

- Dual Intel Pentium® III processor at: 1Ghz
- Tyan Motherboard
- 1024MB RAM
- 2 - 40GB IDE Hard Drives (7200 @ ATA133)
- Microsoft Windows® 2000 Advanced Server
- Microsoft SQL® 2000

How Does It Work for End Users

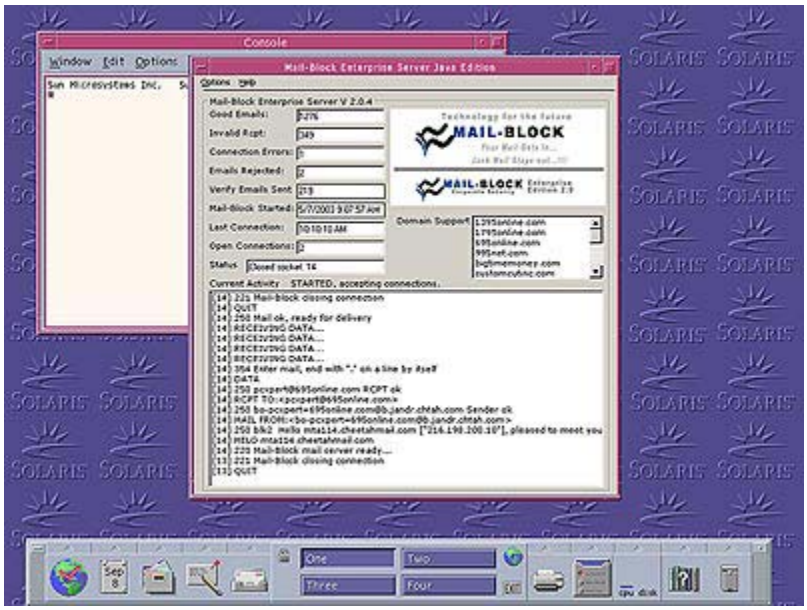
Mail-Block ENTERPRISE runs as a server daemon, handling incoming requests forwarded to it through the use of DNS MX records. Each time the server receives an incoming mail message, it checks the recipients "global" settings and the users "allow/deny" list, and if the incoming email message does not meet the recipients criteria, the email message is placed into a storage queue, and the sender is emailed back a message containing a **Verified Embedded Random Generated Link** for them to click to request authorization from the intended recipient. Normally, if a friend or family member is sending an email to a recipient blocked by Mail-Block they will gladly click the confirmation link to have their email sent to the intended recipient. Imagine how inconvenient and time consuming it might be for the spammer to have to click through bounced messages one by one to get their spam to their desired target!! For all intensive purposes, it's not going to happen as most spammers are too lazy, and prefer to hide behind fake email addresses and bulk email programs. Upon confirmation of a valid email address on behalf of the email sender, the recipient still has the option to block any further emails from the sender in the future. If an email sender does not click through to confirm their identity within a user-defined period of time, the Mail-Block server will permanently delete the unwanted message forever, thereby saving the mail server from having to deliver the unwanted message.

Mail-Block Enterprise Features

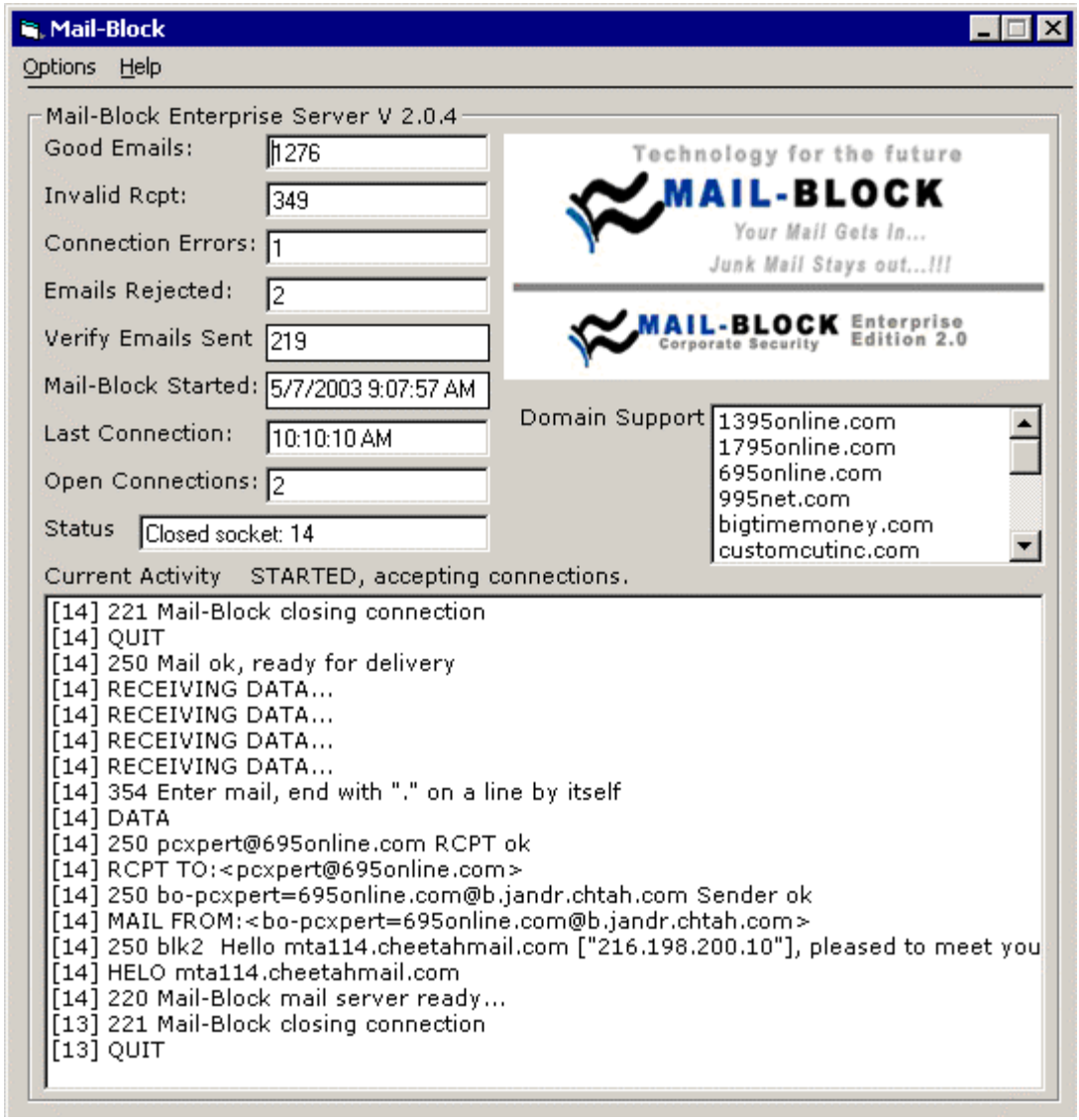
Mail-Block Enterprise has two methods of invocation on the server, it can run as a "console" application, or as a "standalone" GUI based application. Both invocations initialize the Mail-Block Engine, which is a multi-threaded, transaction server, capable of handling hundreds of thousands of connections per minute without losing a single email (unless of course it's spam). A separate application known as the "Event Monitor" may be launched at any time to monitor the performance of the Mail-Block server as well as to view past events, which are logged by the Mail-Block Engine.

Security

Mail-Block Enterprise Edition has built in security logging features, and Event Monitor provide exhaustive security auditing features unparalleled to spam filtering software packages. With the built-in auditing features, you'll not only be able to track down spammers with a few mouse-clicks, but you'll be able to ban spammers from ever accessing your mail servers forever. Mail-Block Enterprise Edition will also block your mail servers from intruders trying to exploit vulnerabilities, create denial of service attacks, or unscrupulous relaying of spam email through your system. Working as a primary line of defense in the network email system, Mail-Block can also protect your network from falling victim to unwitting "blacklisting" by spam abuse services that will put your domain into a black hole for having open relaying on your system.



Above is a screenshot (Image 1.0) of Mail-Block Enterprise Server Java Edition implementation running on Sun Microsystems Solaris Operating system version 6.0, utilizing IBM DB2 version 8.1 database software.



Above is a screenshot (image 1.1) of the standard Win32 implementation of Mail-Block Enterprise running on Microsoft Windows 2000 Advanced Server platform, utilizing SQL Server 2000 for database support. Notice how easily Mail-Block can be configured to handle multiple domains, thereby making it an essential tool for ISP's and web-hosting companies. Small businesses and large corporate entities alike will benefit from the time saved not having employees sift through their Inboxes deleting junk mail. Anyone who's ever gone on a vacation and left their email unattended and came back to find their inbox stuffed with hundreds of unsolicited emails will realize the strength of Mail-Block.

The diagram about (image 1.2) illustrates Mail-Block's internal server flow of events.

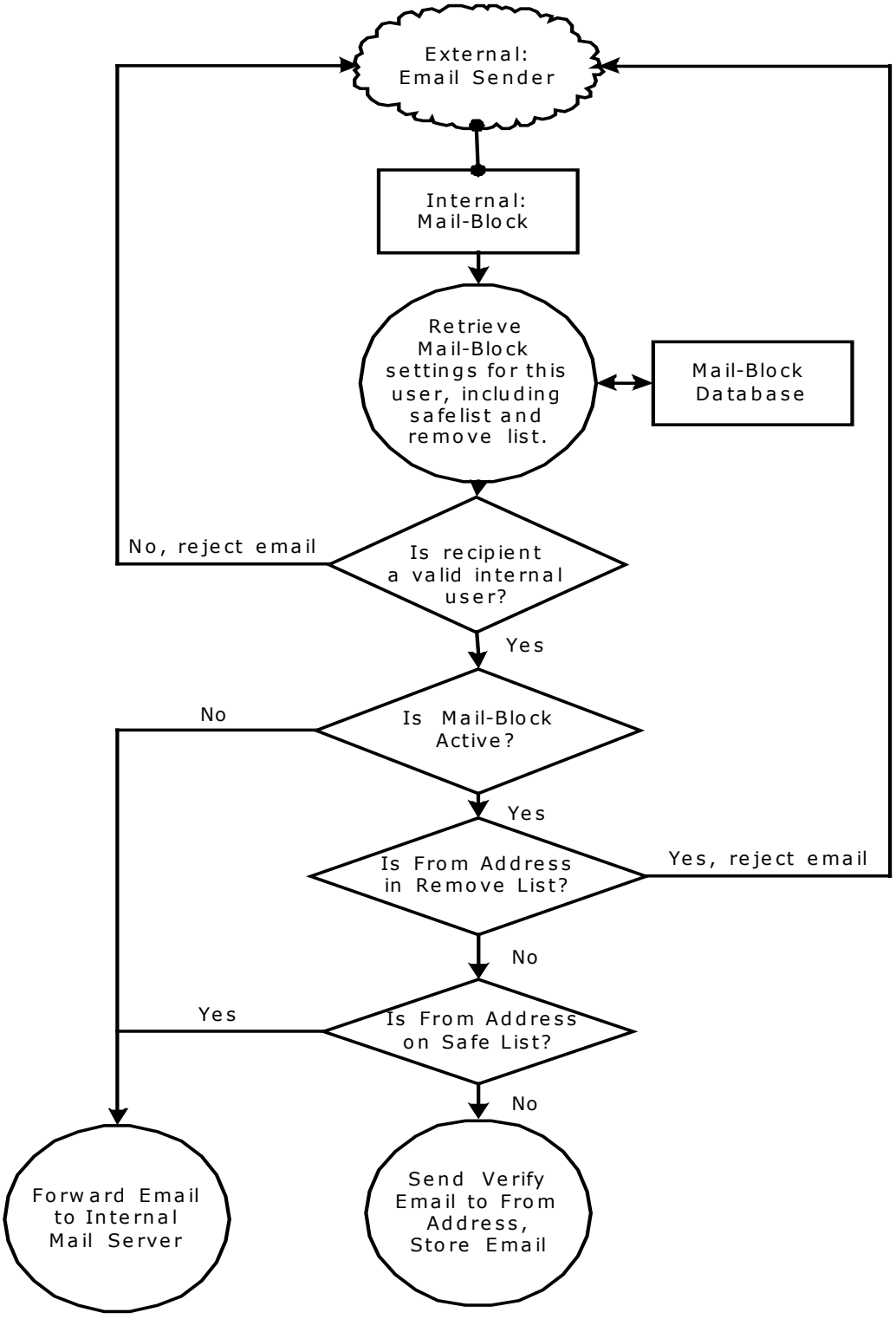
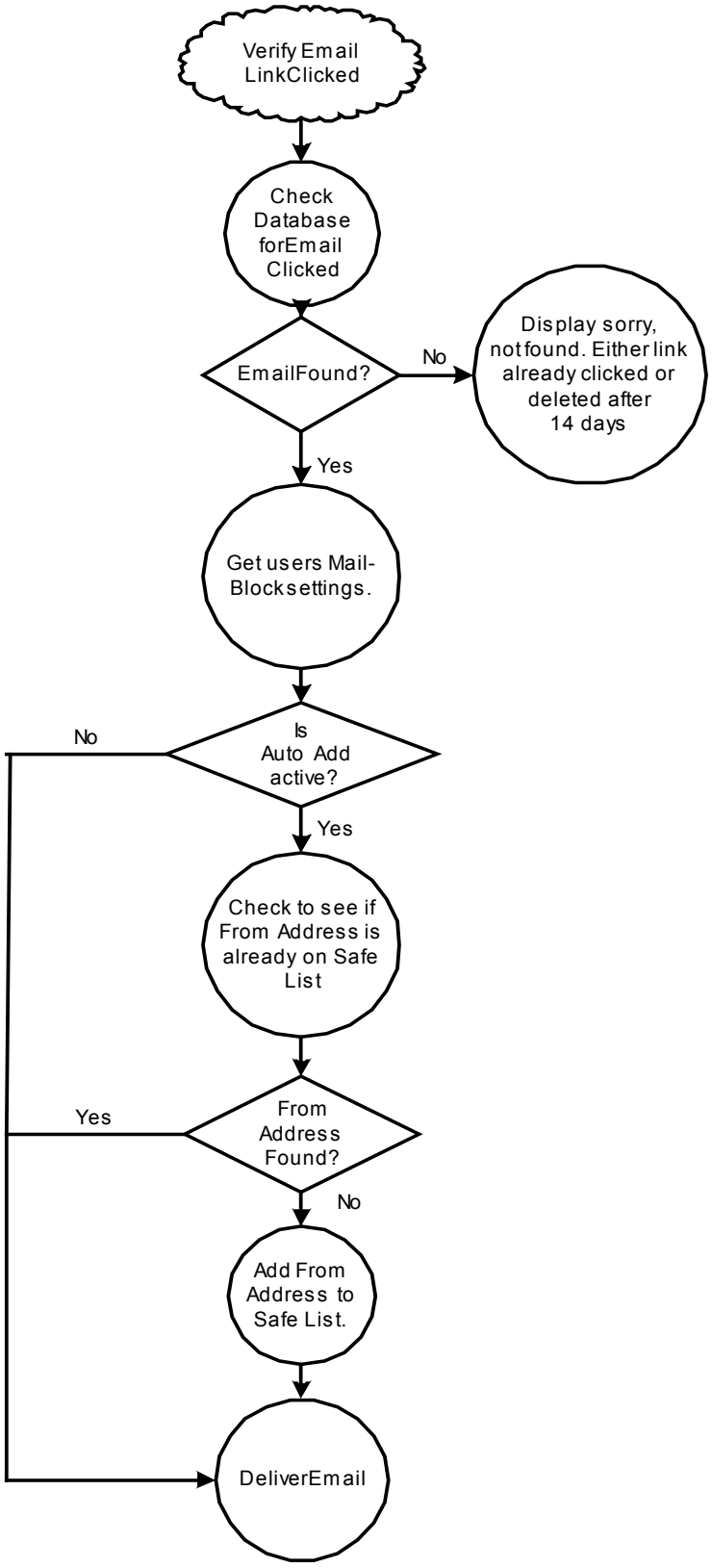


Image 1.3 - Mail-Block Click Email Flow



Mail-Block Secure Email License Program Proposed:

Working with thawte a world reconnized leaded in providing Secure Site Licenses (SSL) the corporate users need only apply and receive a **SecureEmail License (SEL)** from thawte and the listed email servers will be able to pass through the Mail-Block system free of verification steps.

SEL will soon become the Gold Standard of Corporate Communication. Not all businesses need an SSL but Most businesses will want to have the Gold Standard SEL Certificate.

To receive an SEL Certificate thawte would provide the applicant with a set of requirments to meet before issuance.

Upon receiving the SEL Certificate thawte would transmit the information to Mail-Block's data center located in Daytona Beach, FL Mail-Block Enterprise Editions running around the world are updated from this data center each day and the new SEL Certificate will be encrypted and updated to the servers around the world automatically.

If thawte ever revokes or by expiration the same process would take place to automatically remove a SEL Certificate from Mail-Block Servers running around the world.

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