Basic Email Funneling

MX Verify and Redundancy

Why E-Mail Sorting Solutions?

Why Vircom?

Why?

Focused on Managed Messaging "SaaS" Security Systems

Own Superior-Architected Infrastructure

DATACENTERS:

Carrier-class hosting facilities with power and back-up power supplies, Generator, temperature, humidity control and fire suppression systems

12 hours of battery life and 24 hours of generator fuel with contracts for 4 hour diesel fuel delivery

Onsite technician

SERVER FARM

Server Clusters for Web services, E-mail funneling services and Backend SQL databases

System is based on Cisco, Dell and EMC hardware

Access to server Web and E-mail clusters is controlled by Load-Balancers to distribute IP connection across hardware and allow for easy addition of new hardware and auto-detection/removal of down equipment without interruption.

System is monitored and automatic alerts sent out when failures or heavy loads are detected. Stats stored for future growth projection

Dual redundant/load-balanced fiber optic IP internet connections to Tier 1 internet back-bone providers.

Our clusters of servers are directly connected to the internet via Gigabit Fiber and OC-12 internet feeds from two distinct tier-1 service providers

SUPPORTED BY CERTIFIED ENGINEERS

Linux, MCSE, CCNA, CCNP, CCDA certified engineers maintain our own infrastructure and provision our equipment and software as a service.

1-866-660-4292

E-MAIL SORTING SOLUTIONS

VIRCOM

Focused on Email Security Software since 1995

Own Well-Architected Software Technology

Why?

VIRCOM

- Not open to hackers and spammers
- Promptly adapts to new threats or regulations
- Flexible to incorporate specific customer requirements
- Mature Technology
- Industry-acclaimed
- **> 10 years, >100 countries and >1,300 clients**
- **Millions of protected mailboxes**
- **Multiple awards for performance and value**

Basic Email Funneling **MX Verify & Redundancy** service is a “first pass” email processing strategy for organizations managing their own email servers and utilizing their own internal software Spam and virus solutions. IT departments can take advantage of the ***Premium Email funneling*** service, **in parts**, by using our data centers to reduce your email handling volumes, fully back up your local email system, without employing Spam and virus management applications. Managing Spam is a full time process. Let AASP help your IT staff to focus on the spam email we forward to your actual users, we’ll focus on perimeter protections, attacks, and back up to your email systems.

Basic Email Funneling offers companies multiple methods of user authentication to verify that only legitimate mail is passed from our world class email data centers to your email servers, even if it is not scanned for Spam. DNS attacks, directory harvesting, and email bombs are defended at our data centers forwarding only user verified email, which can reduce your own email processing loads from 50% up to 90%. For pennies per email account per month, AASP ***Basic Email Funneling*** can add carrier grade value with enterprise level uptime, while reducing the infrastructureand processing load required to manage the ever increasing problem of Spam.

Together… Focused on Selective PERIMETER Email Security

- **Strong Perimeter Defence**

Protects **AASP** mail servers against:

- Dictionary Harvesting attacks (DHA),
- DoS attacks,
- Open Relay attacks.
- Reputation Filters
- Other controls

- **This represents approximately 70+% of Spam !**

- **As AASP servers are protected, our channel partners and their clients email servers are never threatened !**

Perimeter Defense:
1. Protocol filter
2. Reputation Filters:
- Reverse DNS lookup
- SPF mechanism
- Accreditation DB’s
3. Block DHA attack
4. Connection limits
5. Block connections
6. Mail Relay Control
7. SMTP security
- SMTP Authentication
- 128-bit TLS Encryption

Why?

Focused on our Managed Messaging Clients Since 2003

Over the years, we've answered the requests of our end user focus groups and our channel partners by **PROVIDING**:

- No risk, guaranteed service, cancelable at will.
- No set up fees, maintenance fees or upgrade fees.
- No hardware or software purchases or licenses needed, no changes to legacy systems.
- No-long term contracts, just month to month actual billing.
- Private Labeling – Create market confidence with your **own brand name** premium email funneling services, instill assurances backing ***your*** service with the Vircom software name, offer seamless and quickly noticed upgrades – whether converting from current filtering services or in-house solutions.
- The ability to **create your own channel partners** and re-label again to as many selling partners as the market will bear with street pricing limits.
- Virtual ownership of our World-class infrastructure, use our redundant data centers to guarantee uptime, speed, and ironclad reliability to process huge volumes of email in milliseconds.
- Volume license sharing in the World-renowned, award winning VIRCOM email filtering software through us, with out of the box performance.
- Real time monthly billing safeguarding against turnover, with accurate user verification and unlimited email aliases, meaning fair and exact billing for only the email accounts benefiting from the Funneling service. As the number of filtered email boxes fluctuates, so do the amounts charged to our channel partners and their customers.
- Standard inbound, disaster recovery.
- Web based management center for Administrators.
- Free 30-day trial period, irrespective of mailbox deployment size.

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E-MAIL SORTING SOLUTIONS

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Why?

Focused on Email Security Technology since 1995

VIRCOM

MESSAGE FUNNELING TECHNOLOGY

The core focus of email funneling is to eliminate invalid user named email that is attempting to find an inbox through your own or your customer's email server.   This would seem like a limited amount of email for any receiving email server to process, identify, and reject… but this represents 50% or more of the email load processed by receiving email servers each day.

Our user verification protocols are simple technologies built into most email servers themselves. Email servers allow for these common user verifications between ESS and the email server(s) we are protecting;

1). LDAP

2). SMTP Authentication

3). SMTP Verify

ESS can also employ a manually managed "static list" of email mail users to forward or reject invalid email addresses with.   Sharing an email user list enables the funneling service without an external integration with the security network (ESS) to verify users. The drawback to a static list is it must be manually updated by both sides, ESS and the receiving email server.

Why?

Focused on Email Security Technology within our own Technology Since 2006

How does Basic Email Funneling Work?

By redirecting your email traffic through AASP data Funneling centers (MX Record Change), the world remains unaware that anything on your end has changed, even the speed is the same as email is processed in milliseconds.

How we make it work…

- We disable our own engine scans and simply authenticate email passing through our system as belonging to a known user, on your domain.

- We work with you to set up an authentication method. When our system and your system can match inbound email with actual email users, all un-named inbound email is bounced without notification.

All email addresses have a "send to" formula that directs sent email to the proper email server, for delivering on to the receiver's inbox… that formula is the MX Record.

Since the MX Record is pointing to us, we now verify the email has a valid user address and forward the email (Spam included) to the intended email server. Forwarded email is then server scanned internally and then forwards on to the users inbox.

Provisioning:

1. **Create an Account** by adding domain name(s), mail server IP, DNS name, aliases, and named administrator(s)
2. **Secure Email Traffic** -Block all receiving email that is not from ESS
3. **Select User Verify Option** by best method that fits your system
2. **Redirect Email Traffic** by changing MX Record to point to our data centers, server clusters

Why?

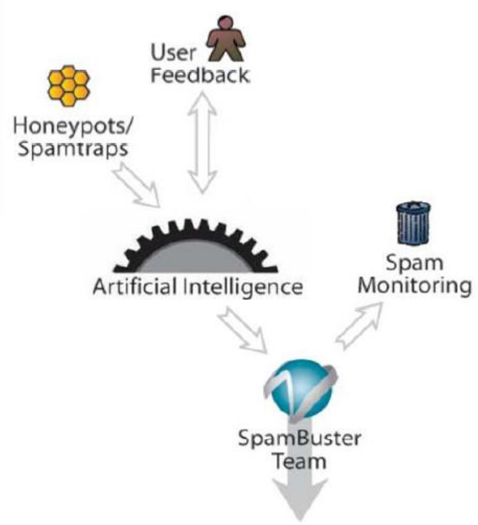
Focused on Effortless Administration
“Set it and forget it”

VIRCOM

Automation

Automated User/Account Management Automatic Population of User DB (SMTP, LDAP…)
•Authentication & User Verification

24/7 Automated Anti-Spam & anti-Phishing Updates
•Up to every 5 minutes.
Matchless self-learning mechanism
• Honeypots/Spamtraps
•User feedback:
– ISP partners,
– Corporate users
Supported by Human Analysis
•Vircom’s SpamBuster Team
– Minimal False Positives
– Every input benefits to All



E-MAIL SORTING SOLUTIONS VIRCOM

Why? E-MAIL SORTING SOLUTIONS & VIRCOM

Feature Summary

Basic Email Funneling

August, 2007

Email Protection Feature	Status	Description
Spam Filtering	NO	98.6% "out of the box"
Virus Blocking	NO	Commercial Updates
Connection Defense	NO	Block/Allow by IP etc…
Delivery Configuration	Yes	Load Balance, Fail Over
Reports	NO	Web Based & Emailed
Message Center	NO	Web User Interface
Quarantine Summary	NO	Email & Web Based
User Authentication "Verify"	Yes	Verify User or Bounce
Directory Harvest Attack	Configurable	AASP Servers Attacked, Client Perimeter Defended
Spam "Email Bomb" and Virus Attack protection	Configurable	AASP Servers Attacked, Client Perimeter Defended
Spooling "Redundancy"	Yes	Up to 3 Days w/Notification
Attachment Control	NO	Size and File Type
Inbound Content Manager	NO	Standard/Custom Scripting
Transport-Layer Security (TLS)	NO	Encryption
Industry Heuristics	NO	Standard/Custom Scripting
User Directory Management (LDAP-SMTP)	Yes	Auto-User Authentication
Outbound Services • Attachment Manager • Content Manager/Corporate Secrets Quarantine • Virus Filtering/Downside Liability • Compliance Footer	NO	Enterprise Rich control for (AUP) Acceptable Use Policy
Instant Messaging	NO	Managed Addition
Archiving	NO	Managed Addition
Private Labeling	Yes	Client Identity on Services
Aggregate Pricing for Core Services/Reselling	Yes	Channel Ready
Cancellation/Performance Clause	Yes	99.999% Uptime Guarantee
Monthly Churn Protection	Yes	Auto-User Verify, Aliases waived, Actual Billing
Migration Consulting	NO	Black/White List Import