www.latestdevelopments.ca

Latest Developments Inc.

CONNECTING BUSINESS WITH TECHNOLOGY

EMAIL PROTECTION - Anti Spam

Latest Development Inc.'s (LDI) Anti-Spam eliminates over 98% of Spam email with less than 1 in 300,000 incorrectly identified (false positives).

With spam levels regularly being measured at between 65 and 90 percent, heavy investment in technology has been required to manage the sheer volume of unwanted email being delivered. Careful attention to connection management and integration of multiple best of breed filters has led to blocking the maximum quantities of spam.

BENEFITS

- Over 98% spam blocking.
- False positive rate better than 1 in 300,000.
- Zero end user disruption.
- Protection from Denial of Service Attack (DOS.)
- Protection from Directory Harvest Attack (DHA).
- Managed service 24 x 7; no hardware, no software, no maintenance, no hassle, lower costs.
- Rapid, risk free service connection.

LDI's email systems offer seven levels of fully automated spam detection:

Level 0

Servers sending messages to LDI are assigned a reputation rating. Based on the quantity and type of mail sent, the rating is adjusted dynamically to block specific sources. This approach is effective against compromised (or 'zombie') machines.

Level 1

Messages sent to LDI's email system pass through a filter creating a unique signature value for each email which are quickly checked against a local database. If the signature is not classified as spam, it is then sent to a Central Spam Monitoring System (CSMS) located in each email system data centre. The CSMS analyses data, looking for similar emails. When such an email is spotted, further tests are performed and, based on the results, the system decides whether the email is spam or legitimate mail.

Level 2

Collective Spam Reporting (CSR), which identifies emails that multiple end users worldwide have reported to be spam. The system again creates a signature value before distributing this information to each of LDI's email system servers worldwide.
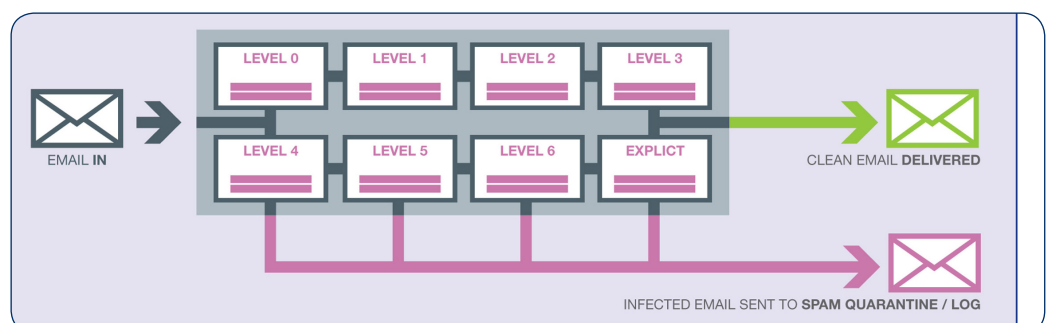
Level 3

Utilises a global black-list database of known open relay servers.

Level 4

A Bayesian filtering module that statistically decides whether an email is spam based on word content.

Level 5

A global black-list database of IP addresses that known "spammers" operate from.

EMAIL IN → LEVEL 0 LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 LEVEL 5 LEVEL 6 EXPLICT → CLEAN EMAIL DELIVERED

INFECTED EMAIL SENT TO SPAM QUARANTINE / LOG

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Level 6

Using Recurrent Pattern Detection techniques (RPD), this filter checks each message against a real-time repository which is constantly updated from a sample of approximately 2% of world wide email traffic. The approach offers high detection rates, low false positive rates and is particularly effective against early stage (or 'zero hour') outbreaks.

Greater Control

Most users require nothing further than the automated spam detection capabilities. However, if further control is required, such as the capability to create explicit white or black lists, a powerful rules engine can optionally be employed to refine spam management.

Containment and Notification

When spam is detected, the email is held in LDI's email system Spam Log for up to 28 days, from where it can be searched for, previewed, released to a mail server or deleted.

User notification of spam is wholly configurable however, with volumes of spam currently so high, the default setting is for the user to receive no notification. If required, an end user may opt to receive a daily spam digest.

Single User Access

For those organisations that wish to provide end-user access to spam logs, either through requirements to meet legislative guidelines or simply for improved visibility, LDI's email systems optionally provide full end-user access via web and scheduled email distribution.

FEATURES

- Multiple "best of breed" anti-spam filters.
- Constantly updated spam definitions.
- "Reputation" based connection management.
- All spam messages quarantined outside company network.
- Flexible spam handling - quarantine or "tag and deliver".

OPTIONAL

- Black lists. ● White lists.
- DOS protection.
- DHA protection.
- Full logging of all messages in real-time.
- Rapid search and audit.
- Custom notification.

FOR FURTHER INFORMATION
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