

Lotus knows.

Smarter software for a Smarter Planet.

IBM Lotus Protector for Mail Encryption

-- Extending Notes Encryption to the Internet

Zhi Qiang Sha(沙志强) | Manager, Lotus Notes/Domino, CDL



Agenda

- What is Lotus Protector?
- Lotus Protector for Mail Security
- Lotus Protector for Mail Encryption

What is Lotus Protector?

An optimized security platform for Lotus Domino customers

- Protector for Mail Security
 - *A spam and content filter for Internet e-mail*
- Protector for Mail Encryption
 - *An Internet e-mail encryption offering*

Protector products understand Lotus Notes and Domino and the ways our customers use it!

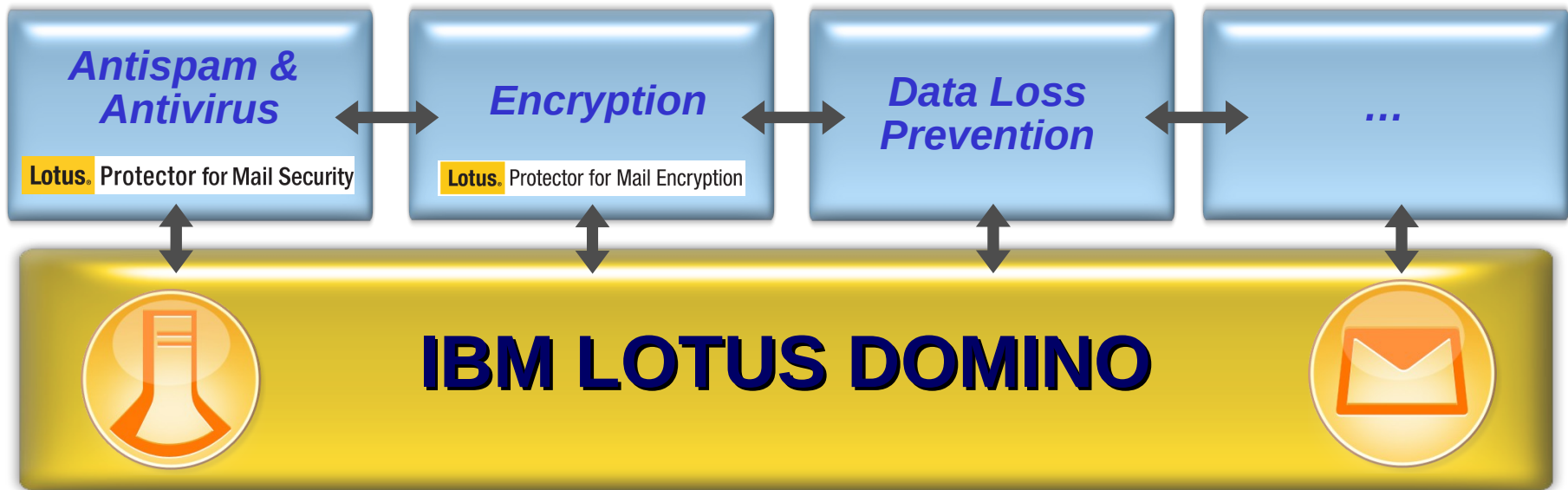
Lotus Protector Vision

- Best in class technology
 - Engineered to same security standards as Notes/Domino
 - Objectively match or exceed performance of security market leaders
- Leverage our understanding of customer deployment patterns and use cases
 - Easiest to purchase, deploy, administer, support
 - Integration with Notes/Domino everywhere
 - Extensible for all Lotus collaboration products
 - “Plays well” in mixed environments and with multiple platforms

IBM Lotus Protector Offering Family



- Extends Domino e-mail with new security and data protection capabilities
 - Protects/secures against Internet threats
 - Delivers enhanced content protection tools
- Integrates with Notes and Domino UI & security model



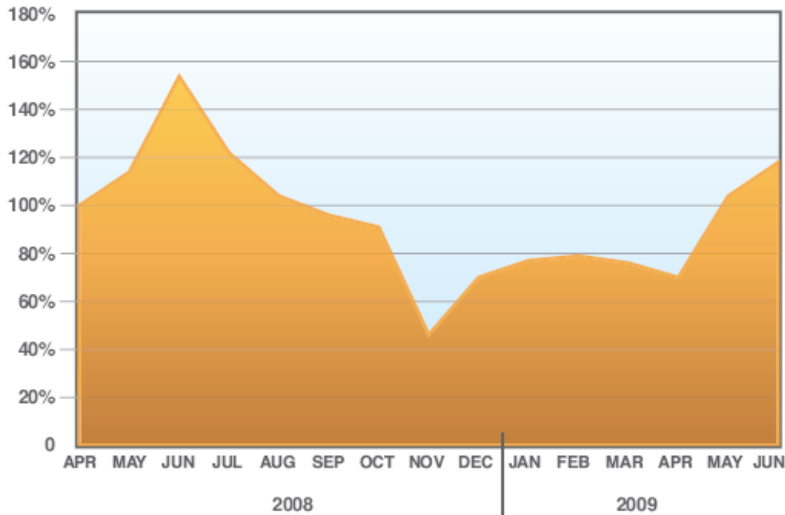
Lotus Protector capabilities, packaging, and release sequence subject to change

Agenda

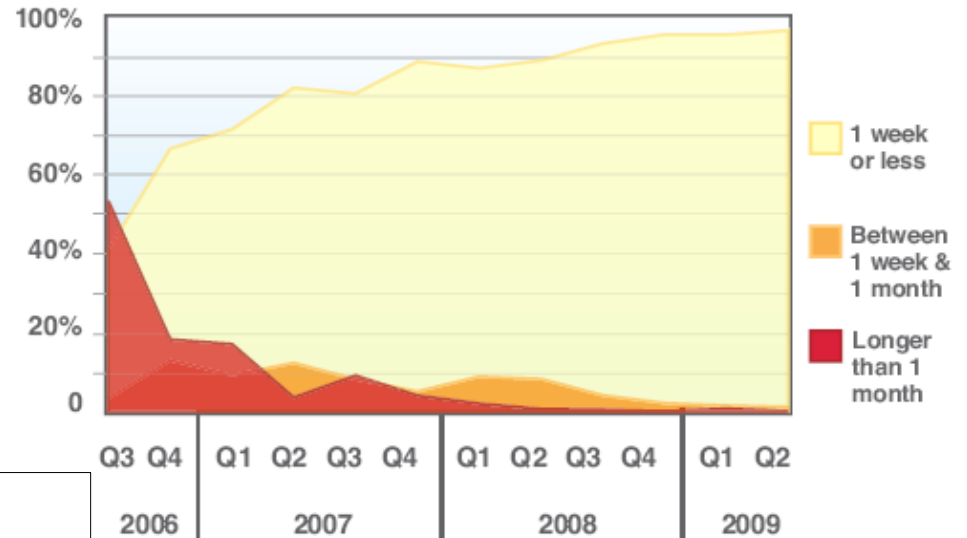
- What is Lotus Protector?
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- Lotus Protector for Mail Encryption

E-mail-borne attacks change rapidly

Spam Volumes

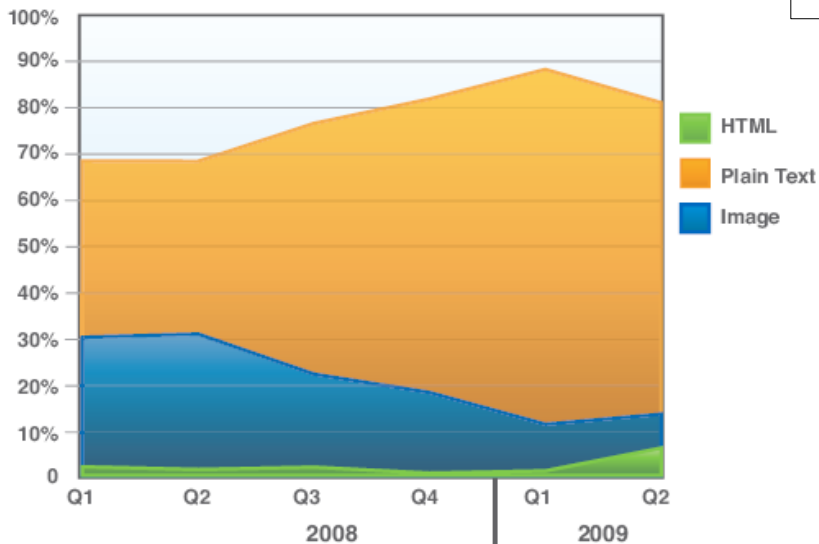


Spam URL Lifespans

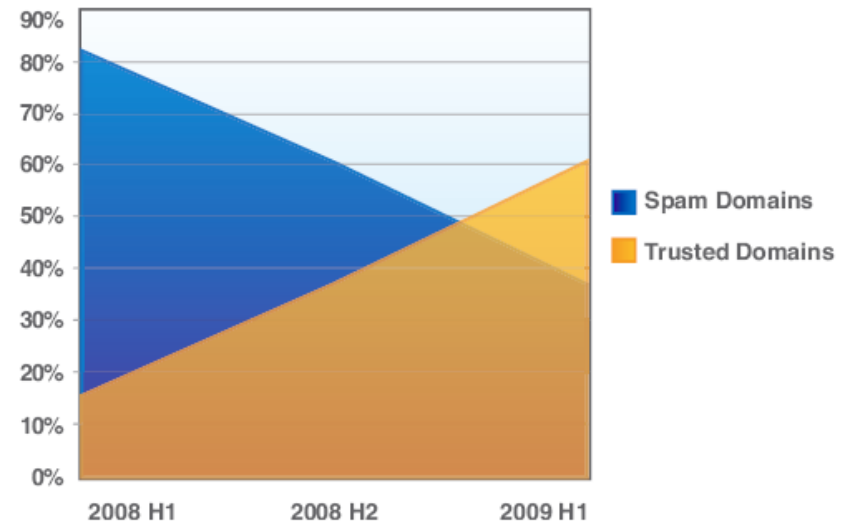


Source:
IBM X-Force
Research 2009

Spam Types



Spam Domains



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Lotus® Protector for Mail Security

Notes/Domino integration



World class technology



Deployment Flexibility

Per-User Software License

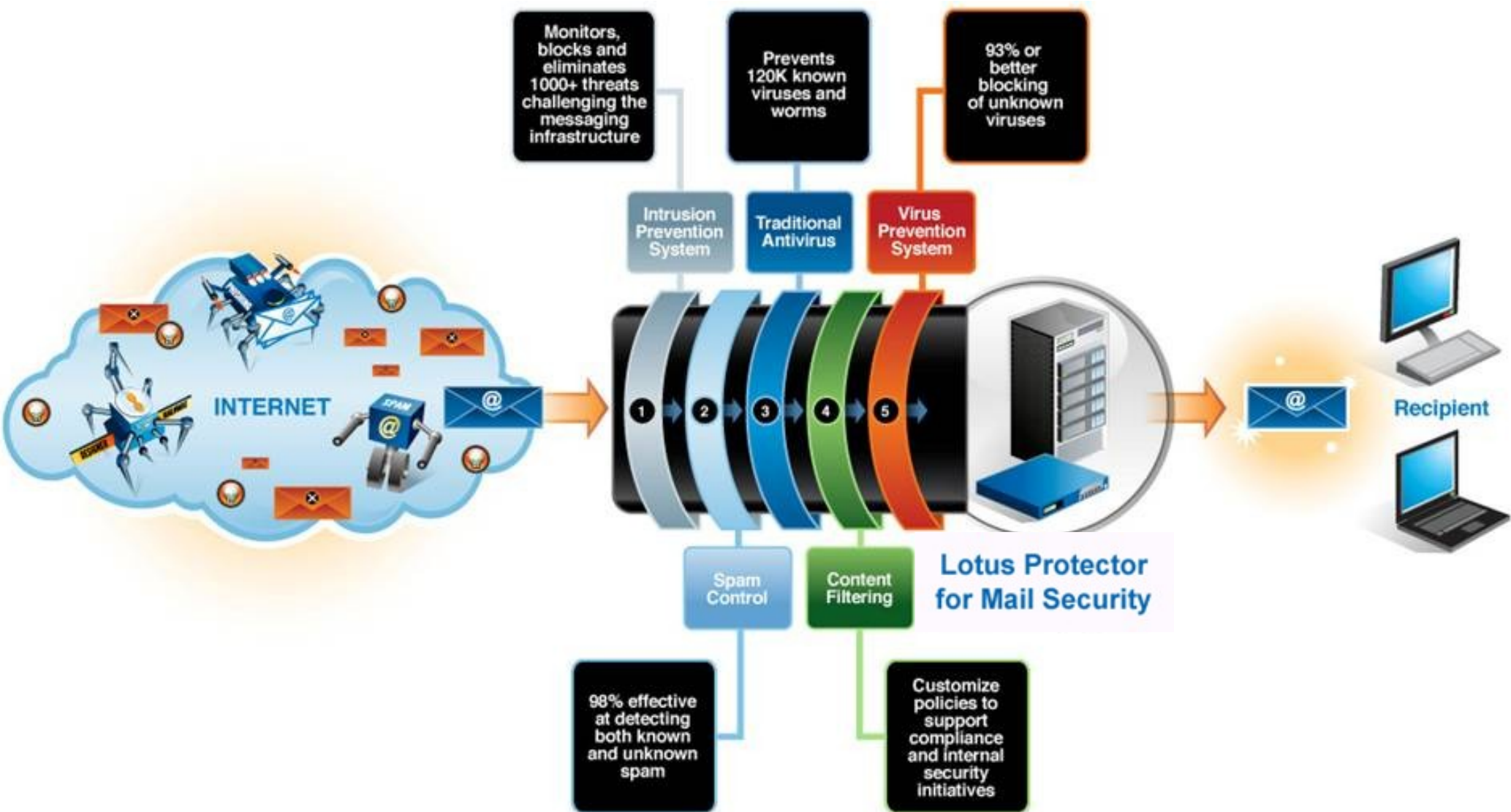


Virtual Appliance



Physical Appliance
(IBM x 3250, x3350, x3650 M2)

Lotus Protector for Mail Security



Notes Inbox Integration

Gives end users complete control over ALL unwanted e-mail!

Objective Spam

- Pharma, sexual, stock scams etc.
 - *Protector for Mail Security stops objective spam cold at the gateway*

Subjective Spam

- Newsletters, mailing lists, event invitations etc.
 - *Notes integration lets users block subjective spam senders permanently*

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|---|---|--|
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|---|---|--|

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Viagra
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Female Viagra
Female Viagra (intense sexual pleasure.

Cialis
Our price: **\$1.99**
Cialis (Tadalafil) is used for treating erectile men's erectile dysfunction (e.g., impotence). Cialis starts working in 30 minutes and lasts for about 35 hours, while Viagra effect lasts up to 5 hours. Besides, you can take Cialis with or without food.

Levitra
Our price: **\$2.93**
Levitra (Vardenafil) is an oral therapy for the treatment of erectile dysfunction. Having the longest effect of 4 hours, and the start time of 16 min, Levitra represents an untested advantage in comparison with Viagra.

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Your service

Ten Tips for Highly Successful B2B Telemarketing

Dear Arnold

Running a successful **B2B telemarketing campaign** in the high technology sector depends on having completed hundreds of these telemarketing teams have a proven ability to open scripts when we talk to senior decision makers; business needs and pains, then we make and acceptance.

Product Management View
ANTICIPATE • CULTIVATE • INNOVATE

WEBINAR SERIES!

Join us at no charge! Based on a tremendous response KnowledgeWave is hosting another no fee webinar titled: **Logos and Photos and Files, Oh My!** An Introduction to the Adobe Creative Suite. When you begin the task of designing your own marketing materials, you may think that Photoshop is the tool for you. Others may claim its InDesign or Illustrator. The reality is that each of these applications plays a definite and unique role in the design process. This webinar will uncover the benefits of each application and which to use when, and why. In the process we will also cover some basic principles of graphic design. Some of the things that you will learn:

- * Explanation of the Creative Suite Application
- * Definition of raster vs. vector images
- * Outline of Graphic Design Workflow

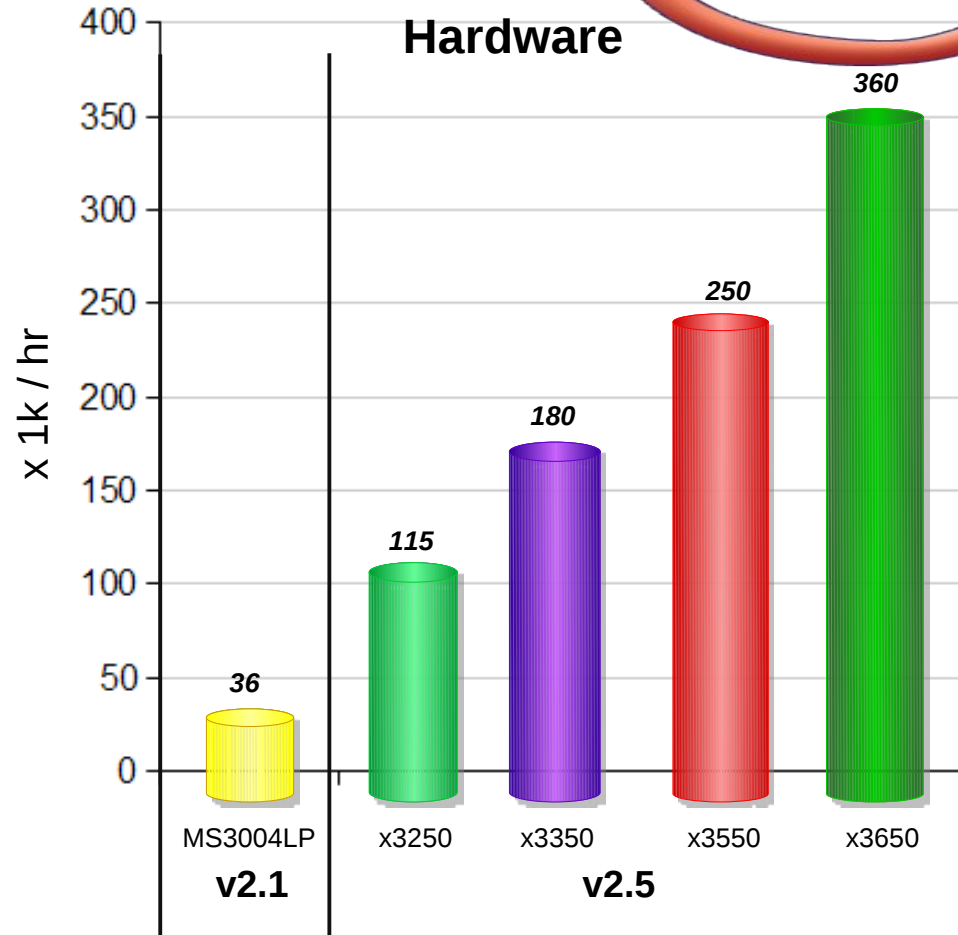
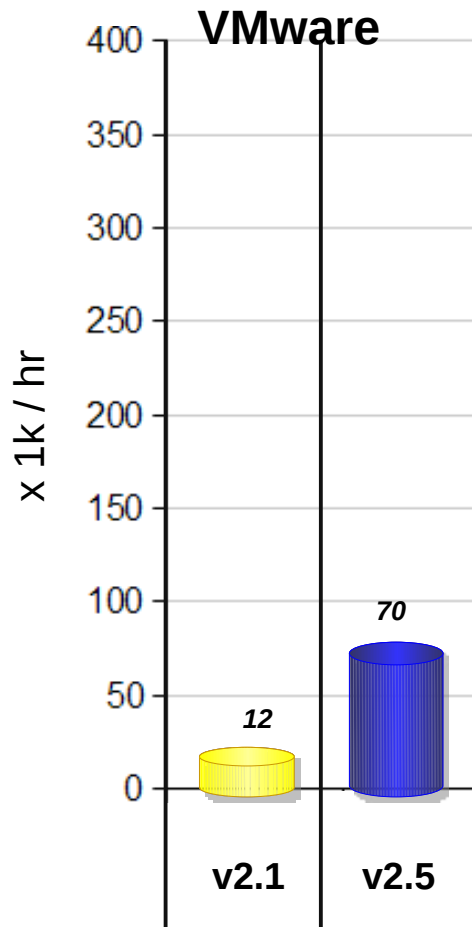
Product(s): Adobe Creative Suite.
Audience(s): Business Professional.
Duration: 60 Minutes
Start Date: Wednesday, September 2, 10:00AM (EDT) United States.
Fee: FREE
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Massive throughput and scalability

Filters up to 360,000
e-mails per hour



NOTES

- Measured filtering of incoming internet emails of average 19kB size with pre-filters turned off. IP pre-filtering and SMTP pre-filtering increase throughput.
- Version 2.5 hardware refers to off-the-shelf IBM System x rack-mounted servers
- MS3004LP hardware discontinued as of 9/22/2009, but v2.5 is supported on previously purchased units at 198k/hr.
- See: <http://www-01.ibm.com/software/lotus/products/protector/mailsecurity/systemrequirements.html>

Agenda

- What is Lotus Protector?
- Lotus Protector for Mail Security
- Lotus Protector for Mail Encryption

Top line from Burton Report

Secure e-mail has not changed greatly since Burton Group's last report on the subject in 2003. Functionality from vendors such as IBM... Microsoft...and Novell has remained static. **Despite strong risk and compliance drivers, adoption is low** as enterprises and the industry as a whole fail to achieve Public Key Infrastructure (PKI) nirvana or to agree on an alternative model - such as Identity Based Encryption (IBE) – and make that an open standard. The built-in (and thus “free”) secure e-mail solutions from major vendors... are inadequate; the enhanced solutions from third party vendors are expensive and proprietary. **It is as if the market is in a state of arrested development.**

Although enterprise e-mail has been around since the late 1980s, **organizations are still struggling with how to securely provide information to their clients, partners and suppliers** through this medium. With additional regulatory requirements, increased Internet e-commerce and privacy concerns, the **demand for confidential e-mail services will continue to grow.** For most organizations and users, secure messaging means, above all else, **the ability to encrypt e-mail and transmit it to intended recipients without disclosure or alteration.** Applying similar protections to instant messages, mobile messages, and other online communications is also a major concern.

Secure E-Mail: Commoditized Functionality, Proprietary Deployments
Burton Group 2008

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Lotus® Protector for Mail Encryption

Notes/Domino integration



World class technology



Deployment Flexibility

Per-User Software License

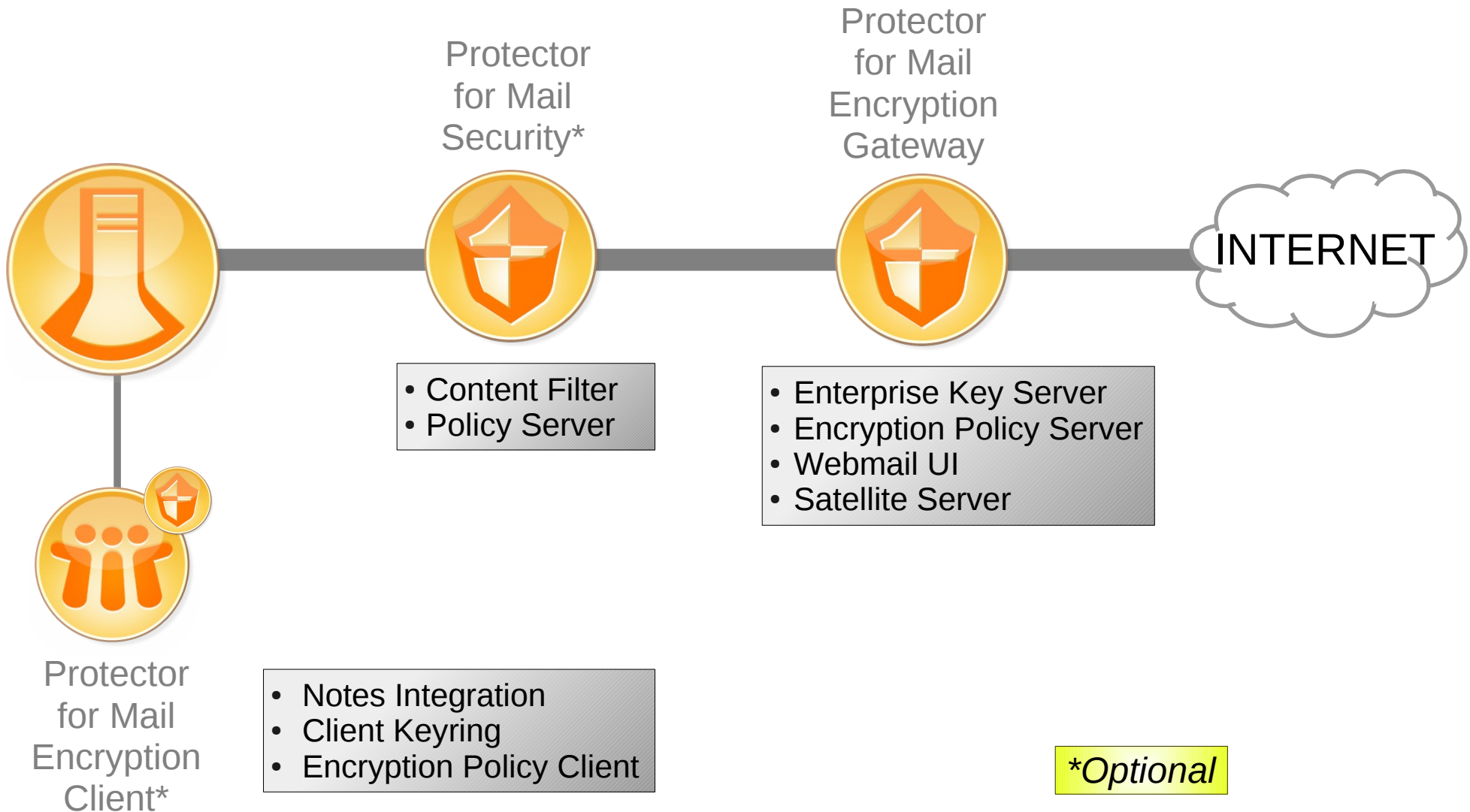


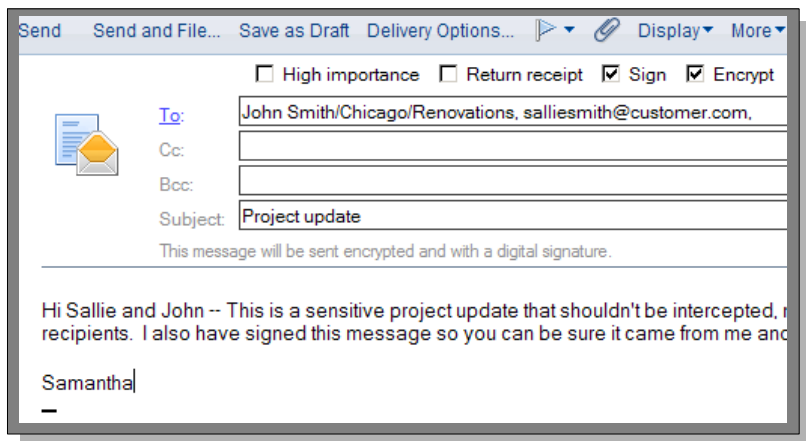
Physical or Virtual Appliance

What does it do?

- It **extends Notes encryption** to the Internet
- It secures e-mail using the **most seamless encryption** available for a given recipient
- It **provides options** to recipient for preferred method of communication
- It ensures content in transit is **not intercepted or modified**
- It **saves money** on couriers, certified mail, overnight delivery, faxes, etc.

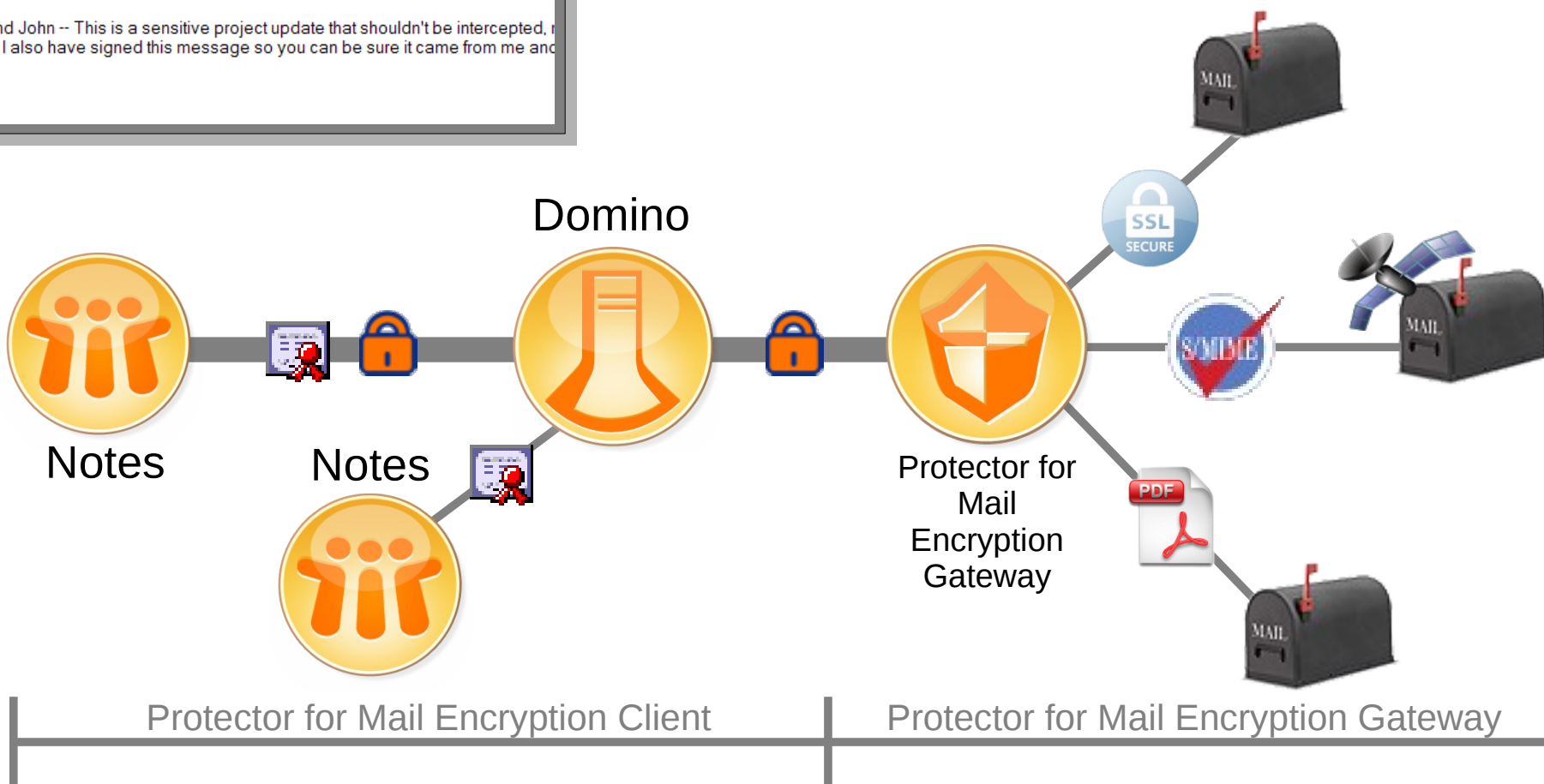
How does it work?





Finding the Best User Experience

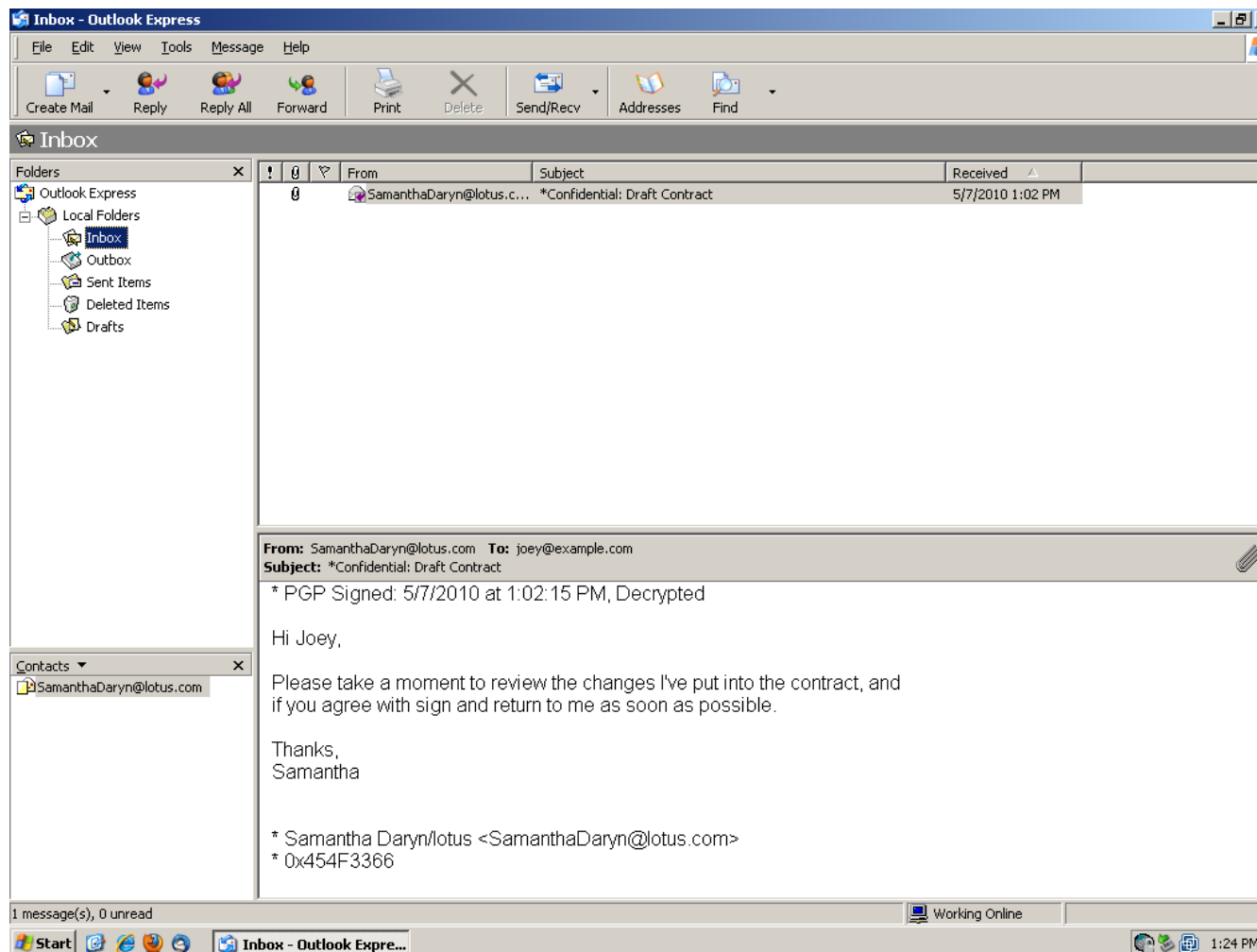
Protector for Mail Encryption is **intelligent** about finding the best, most seamless encryption mode for **every user**



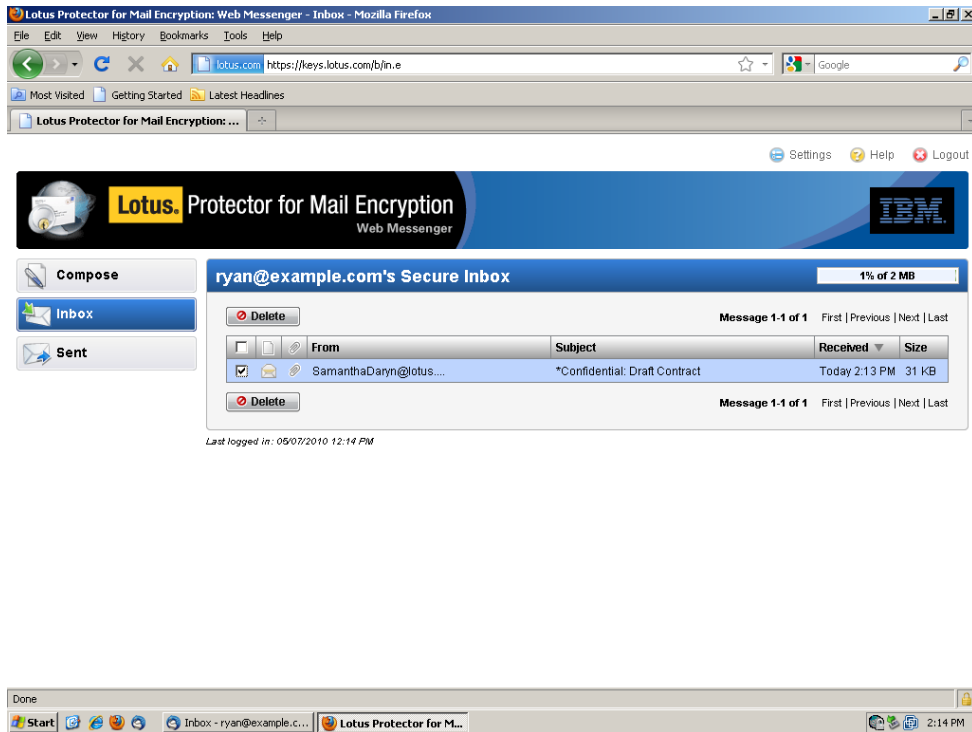
Intelligent encryption finds the easiest path

- Notes PKI
- Federated Key Server
 - *keys.recipient.com*
- PGP Desktop or S/MIME
- PGP Universal Satellite
- Web Messenger
- PDF Messenger

PGP Universal Satellite



Web Messenger



Lotus Protector for Mail Encryption: Web Messenger - Inbox - Mozilla Firefox

File Edit View History Bookmarks Tools Help

lotus.com https://keys.lotus.com/b/in.e

Settings Help Logout

Lotus. Protector for Mail Encryption Web Messenger IBM

Compose

ryan@example.com's Secure Inbox 1% of 2 MB

Delete

Message 1-1 of 1 First | Previous | Next | Last

| <input type="checkbox"/> | From | Subject | Received | Size |
|-------------------------------------|------------------------|-------------------------------|---------------|-------|
| <input checked="" type="checkbox"/> | SamanthaDaryn@lotus... | *Confidential: Draft Contract | Today 2:13 PM | 31 kB |

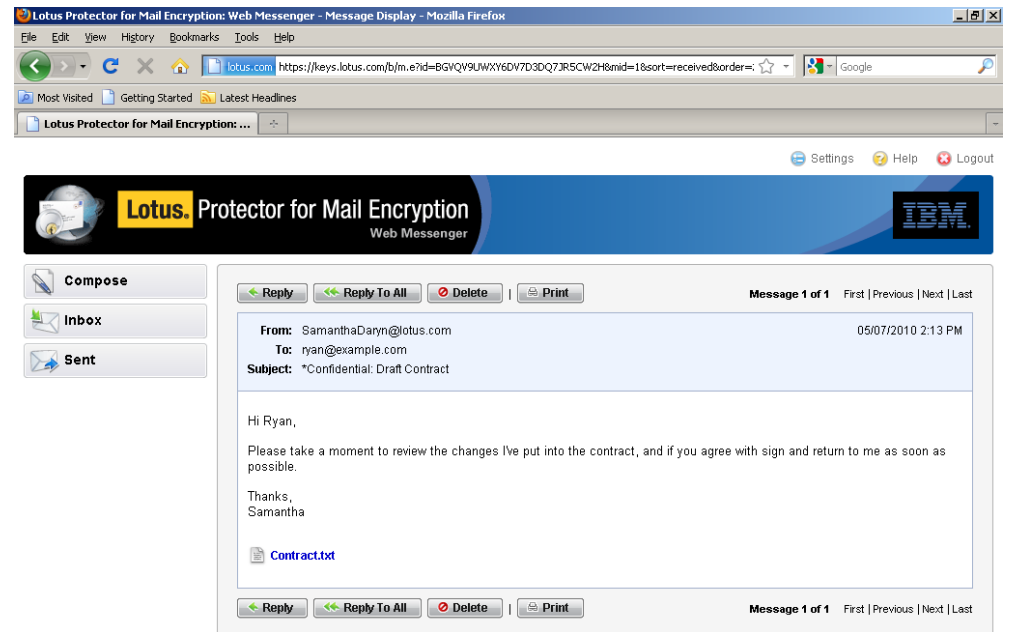
Delete

Message 1-1 of 1 First | Previous | Next | Last

Last logged in: 05/07/2010 12:14 PM

Done

Start Inboxes - ryan@example.c... Lotus Protector for M... 2:14 PM



Lotus Protector for Mail Encryption: Web Messenger - Message Display - Mozilla Firefox

File Edit View History Bookmarks Tools Help

lotus.com https://keys.lotus.com/b/m.e?id=BGVQV9UWXY6D17D3DQ7JR5CW2H&mid=1&sort=received&order=<

Settings Help Logout

Lotus. Protector for Mail Encryption Web Messenger IBM

Compose

Inbox

Sent

Reply Reply To All Delete Print

Message 1 of 1 First | Previous | Next | Last

From: SamanthaDaryn@lotus.com 05/07/2010 2:13 PM
To: ryan@example.com
Subject: *Confidential: Draft Contract

Hi Ryan,

Please take a moment to review the changes I've put into the contract, and if you agree with sign and return to me as soon as possible.

Thanks,
Samantha

Contract.txt

Reply Reply To All Delete Print

Message 1 of 1 First | Previous | Next | Last

Done

Start Inboxes - ryan@example.c... Lotus Protector for M... 2:14 PM

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PDF Messenger

Inbox - ryan@example.com - Mozilla Thunderbird

File Edit View Go Message Tools Help

Get Mail Write Address Book

Inbox - ryan@example.com

Subject: Lotus Protector for Mail Encryption PDF Me

from SamanthaDaryn@lotus.com
subject: Lotus Protector for Mail Encryption PDF Me
to: ryan@example.com

You have received a Lotus Protector:

SamanthaDaryn@lotus.com

To read the message securely, please enter your passphrase. Adobe Reader is the following web site:

<http://www.adobe.com/reader>

To change your Mail Encryption Web Messenger passphrase or delivery options, please click this link:

<https://keys.lotus.com/b/f.e?r=ryan%40example.com&n=K1WLnFUVGMphUh9KVSjPUG%3D%3D>

PGPMessage.pdf

Unread: 0 Total: 1

Start | Inboxes | Adobe Reader | 2:12 PM

PGPMessage.pdf (SECURED) - Adobe Reader

File Edit View Document Tools Window Help

1 / 1 102%

Find

Subject: *Confidential: Draft Contract
From: SamanthaDaryn@lotus.com
Date: Fri, 7 May 2010 13:33:00 -0400
To: ryan@example.com

Hi Ryan,

Please take a moment to review the changes I've put into the contract, and if you agree with sign and return to me as soon as possible.

Thanks,
Samantha

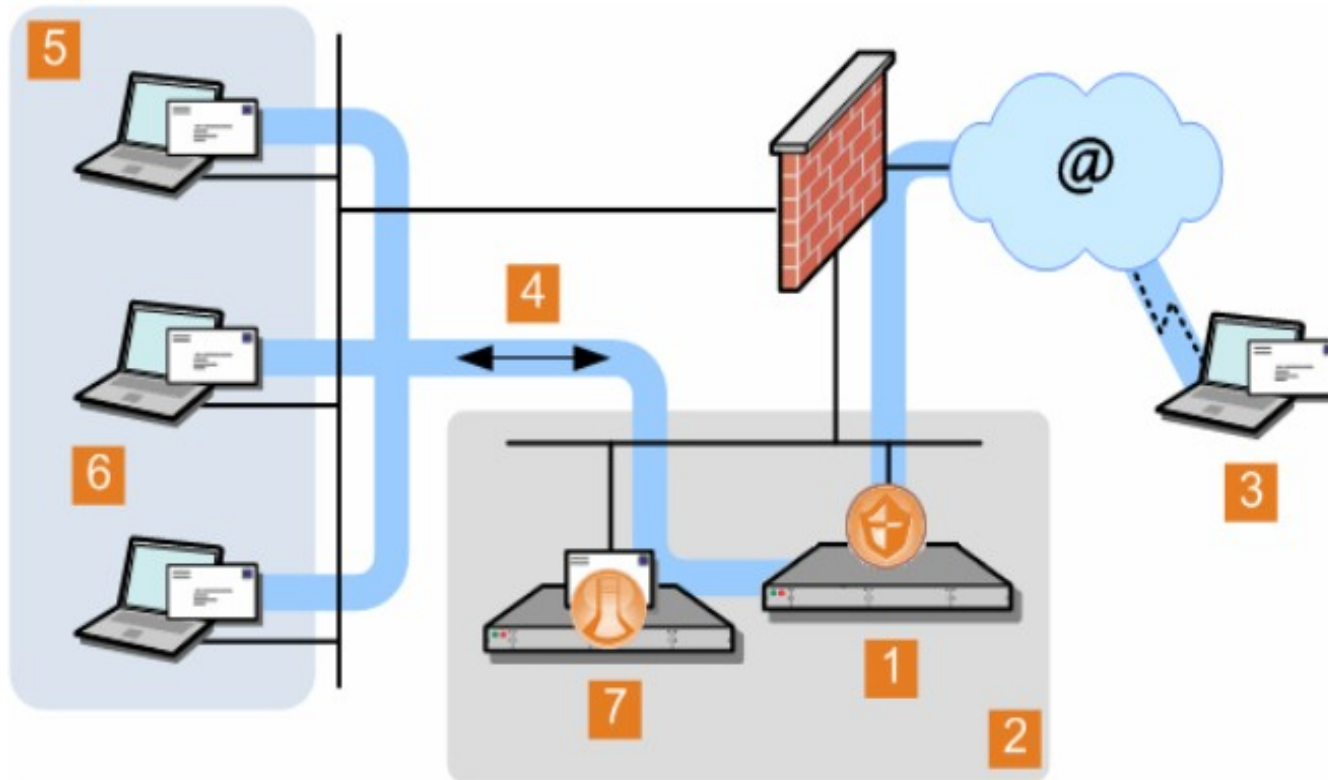
| Name | Description | Modified | Size | Compressed size |
|--------------|-------------|----------|-------|-----------------|
| body.html | | Unknown | 1 KB | 1 KB |
| Contract.txt | | Unknown | 30 KB | 10 KB |

Start | Inboxes | Adobe Reader | 2:12 PM

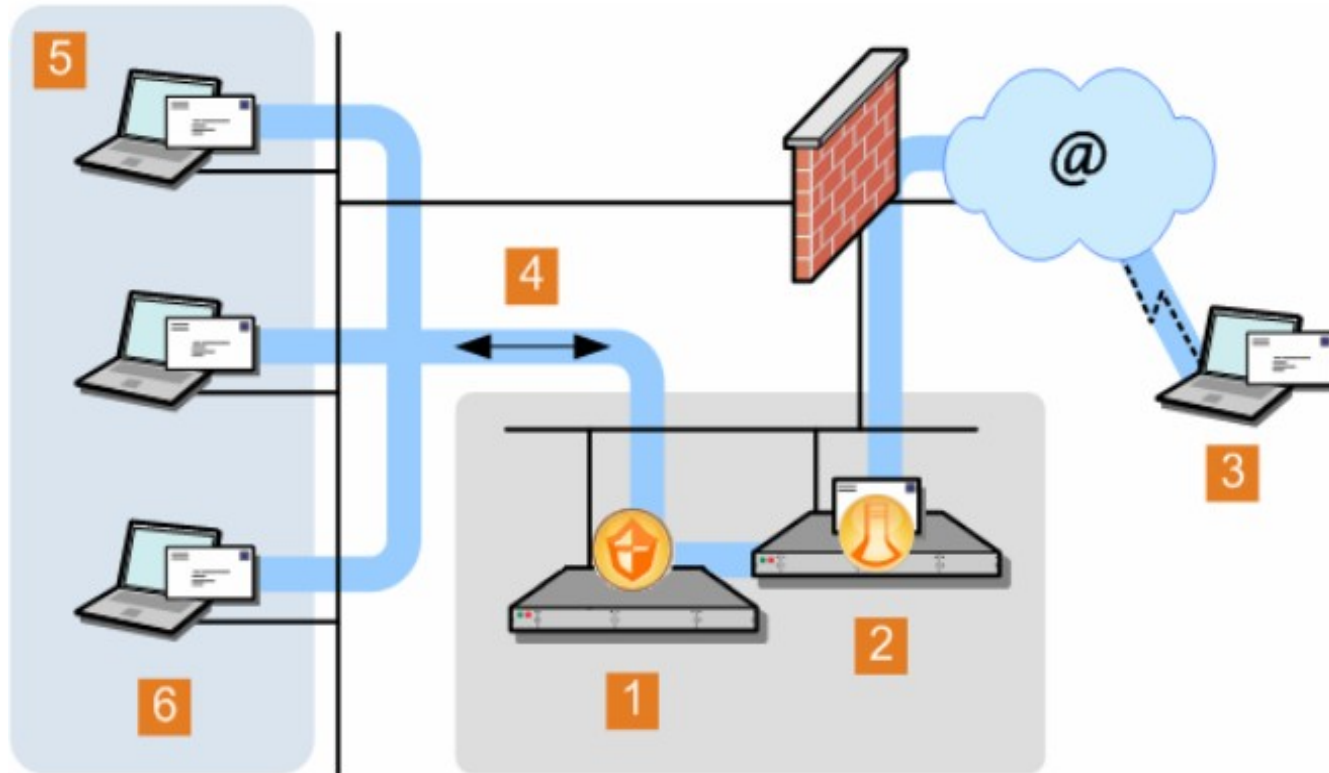
Server Placement

- A Lotus Protector for Mail Encryption Server can be placed in your network in either of two locations in the logical flow of data:
 - **Gateway placement.** The Lotus Protector for Mail Encryption Server is located between your external facing mail server and the Internet in the logical flow of data.
 - This is the placement that should be used for the Lotus Protector for Mail Encryption Server in a Lotus Notes environment.
 - **Internal placement.** The Lotus Protector for Mail Encryption Server is located between your email users and their local mail server in the logical flow of data.

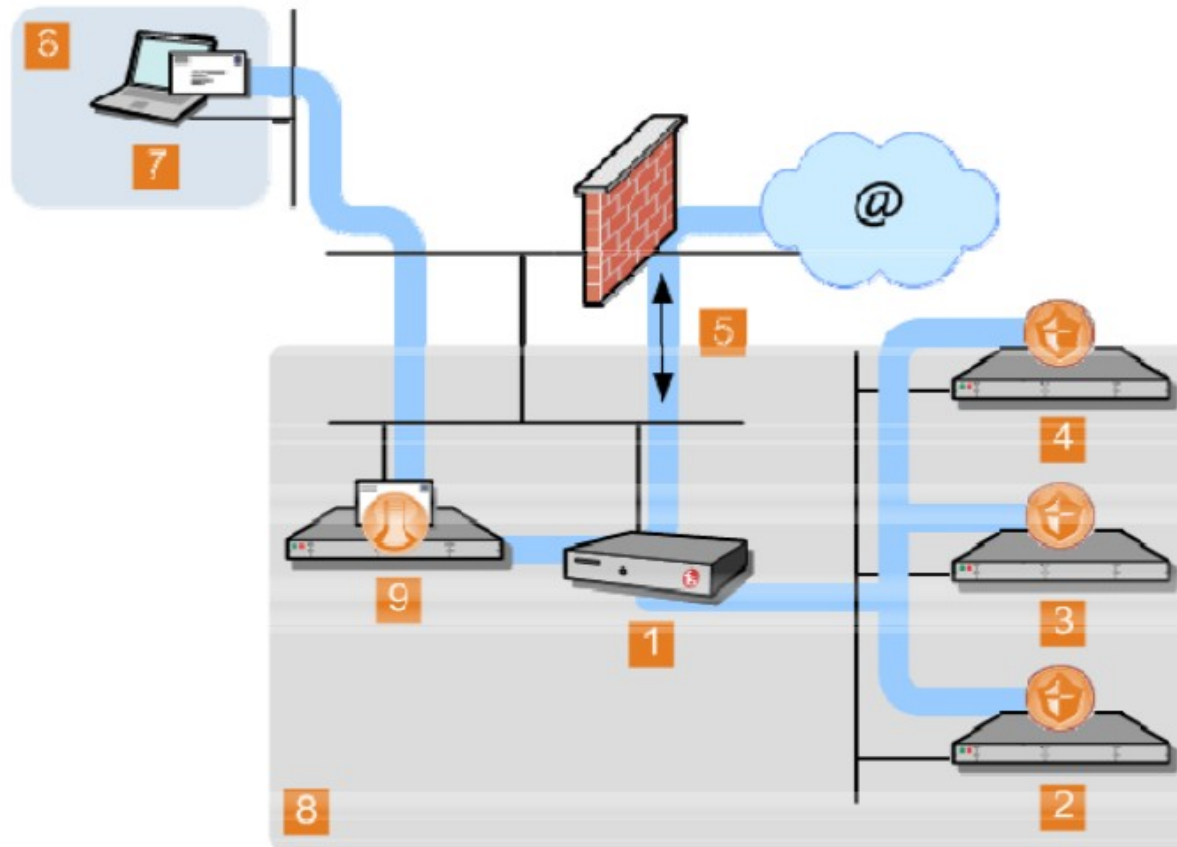
Gateway placement



Internal placement



Server Placement – Gateway Cluster with Load Balancer





Summary

- Protector is a *security platform* that is optimized for Domino customers
- Protector for Mail Security is a solution that blocks *all types* of unwanted mail
- Protector for Mail Encryption *extends Notes security* to Internet e-mail addresses

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Lotus[®] Protector



www.ibm.com/lotus/protector

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Questions?



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