

IronPort Messaging Security

**CISCO'S NEW STRATEGY AGAINST SPAM, VIRUSES AND
SPYWARE**



 Mirko Schneider

Territory Manager Eastern Europe & Russia
IronPort - A CISCO Systems Business Unit

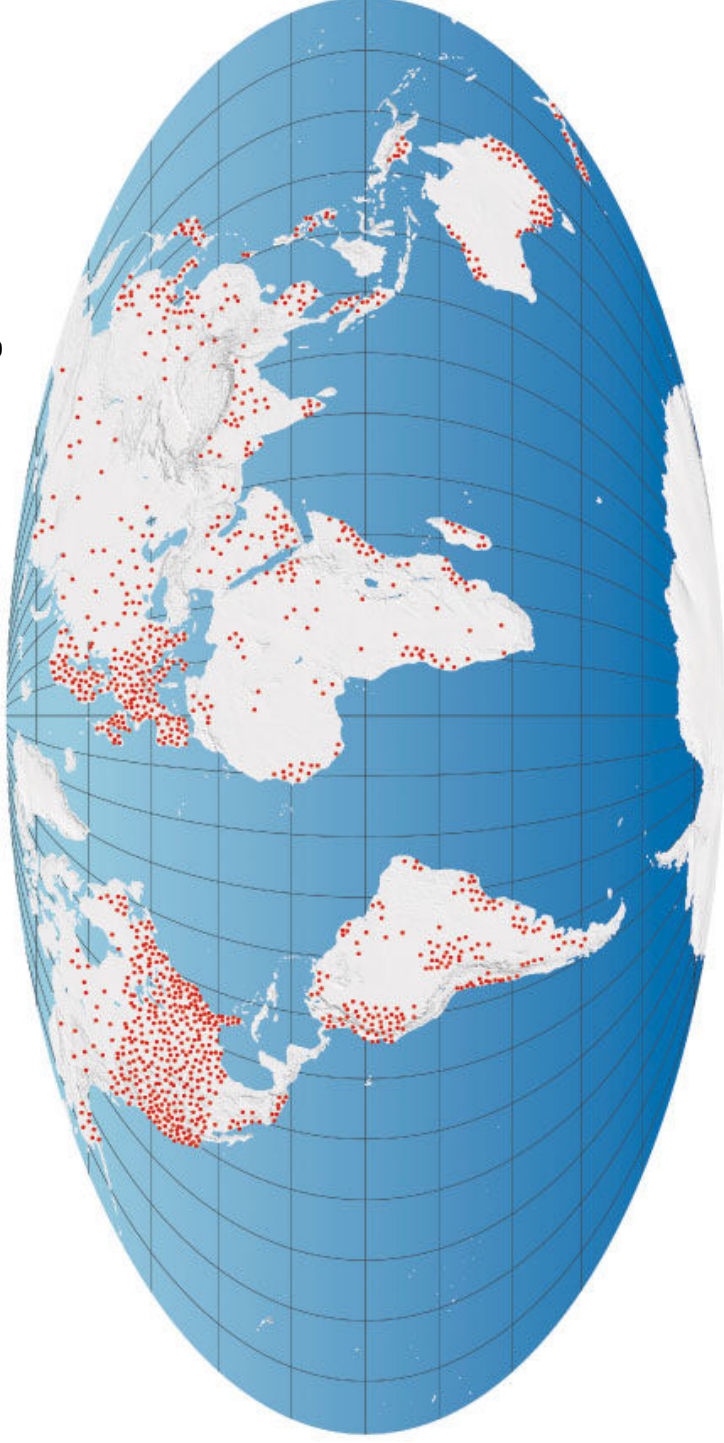
CISCO EXPO Croatia 2008



The Power of SenderBase[®]

First, Biggest, Best Reputation System

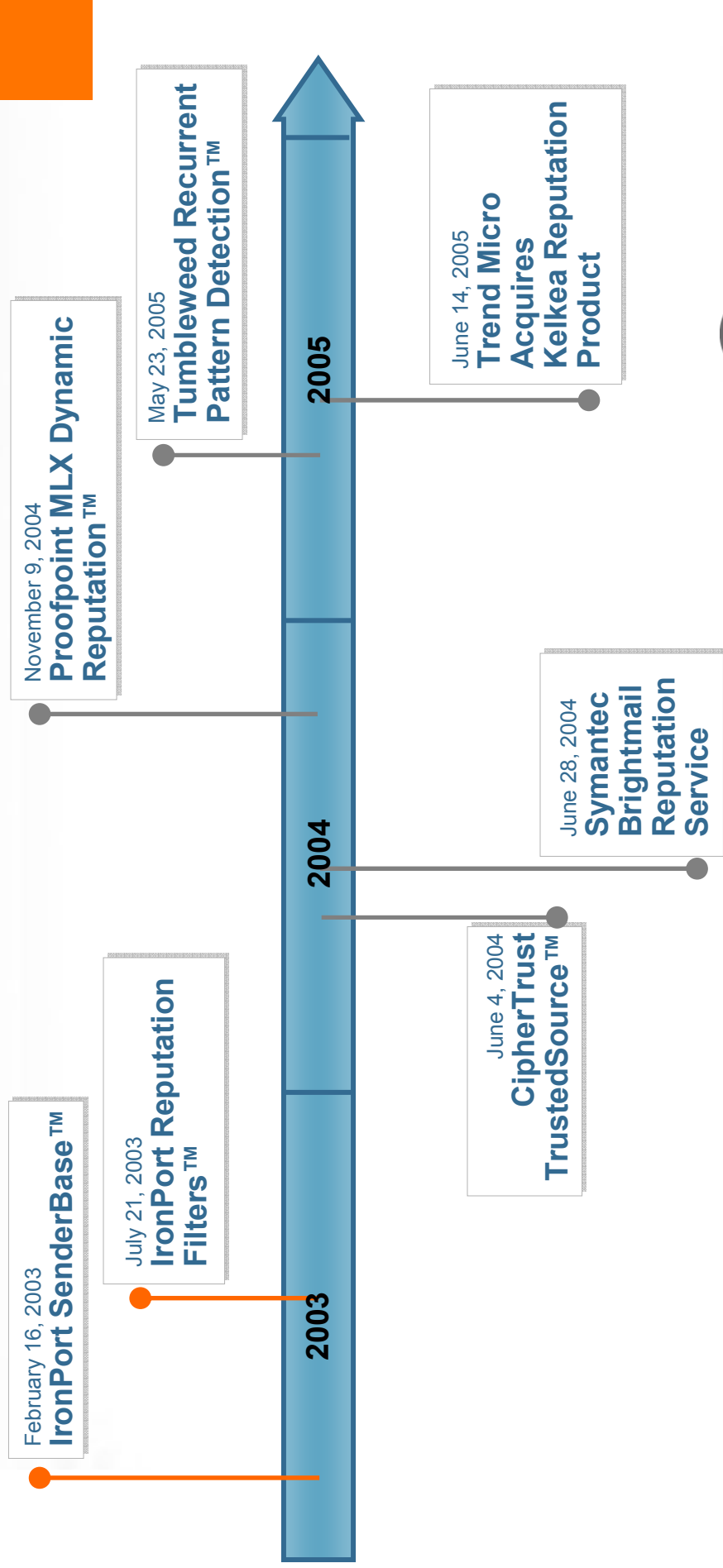
Global Email and Web Traffic Monitoring



Over 100,000 contributing networks
Over 20M IP addresses tracked globally
View into over 25% of email traffic
Over 150 parameters tracked



Leading Edge Technology Reputation Filtering Sets off Industry Scramble



Who is IronPort?

- Founded in 2000 by Email pioneers from Hotmail, ListBot, Yahoo
- idea: building the fastest and strongest gateway appliance
- HQ in California, Silicon Valley
- Worldwide 500+ employees
- Market growth rate = 50%
IronPort growth rate = 100%
revenue 2007: ~ 250m USD
- A Cisco Business Unit since mid 2007



IronPort – A CISCO Business Unit

- Largest security acquisition
- 5th largest acquisition ever
- market consolidation:

BrightStark

-> Cisco Systems

CipherTrust

-> SecureWorks

Postini

-> Google: 625m \$

SurfControl

-> Websense: 400m \$



InfoWorld

Cisco to buy IronPort for \$830M

Company expands security portfolio with IronPort anti-spam

By Robert



E-mail



Printer Friendly



Reprints Text

Ironport: expensive but strategic

Merger Acquisition
Divestiture



Merrill Lynch

BUY



The Principles of Industry Leadership

- Analyst Leadership

- Gartner's Magic Quadrants 2006: Leader
- IDC July 2007: market share leader
- Radicati Market Quadrants 2007: Leader

- Customer Leadership

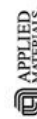
- 52 of the World's Largest 100 Companies
- 20+% of Global 2000
- 12 of the 15 largest ISPs

Success in Croatia

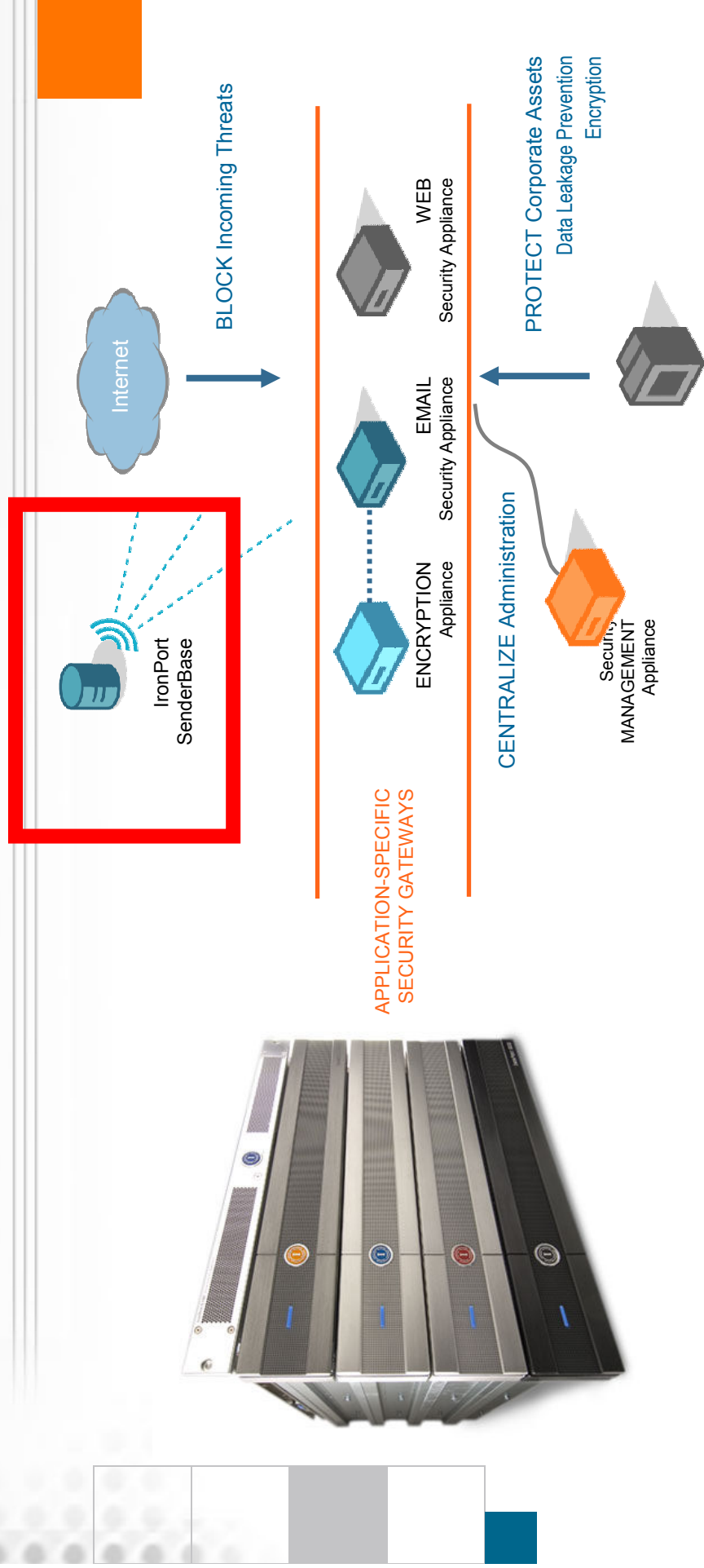


**Raiffeisen
BANK**

Austria d.d. Zagreb



IronPort® Gateway Security Products



The IronPort SenderBase® Network

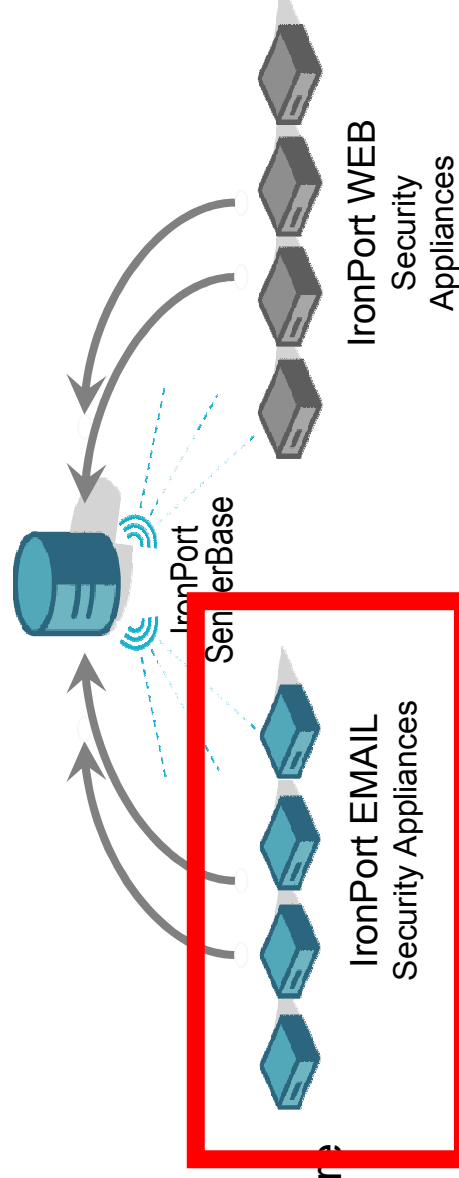
Global Reach Yields Benchmark Accuracy



- 30B+ queries daily
- 150+ Email and Web parameters
- 25% of the World's Traffic
- Cisco Network Devices

- View into both email & Web traffic dramatically improves detection
- 80% of spam contains URLs
- Email is a key distribution vector for Web-based malware
- Malware is a key distribution vector for Spam zombie infections

Combines Email & Web Traffic Analysis

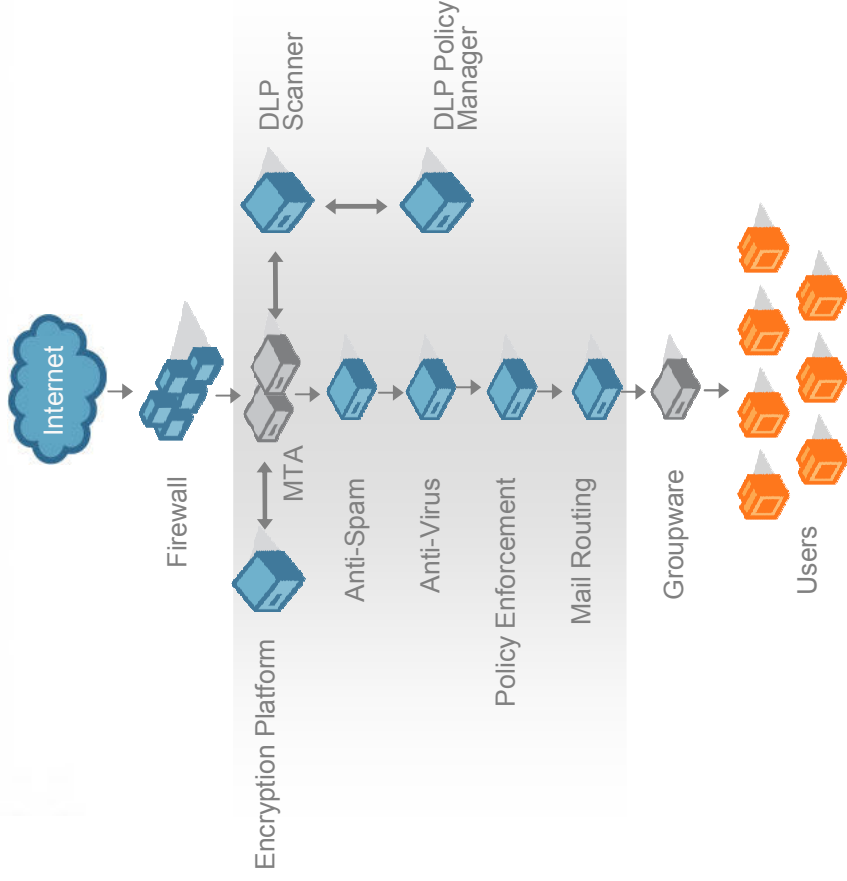


The Leader in Email Security
IronPort C-Series Appliance

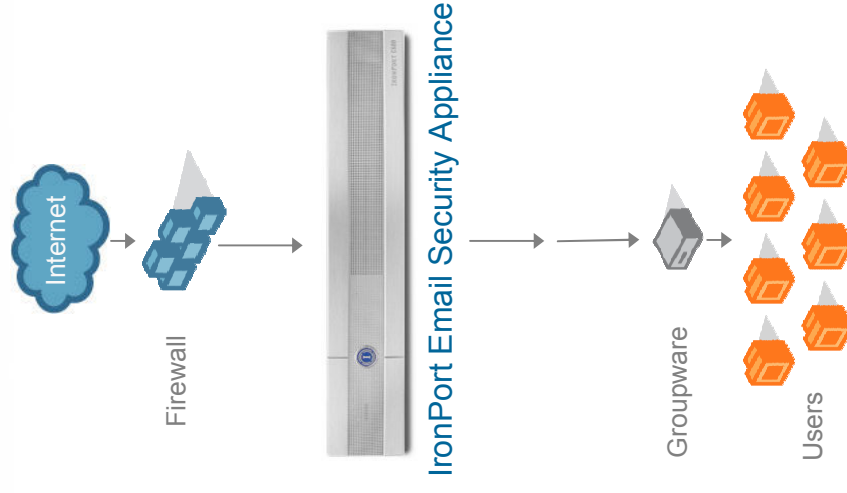
IronPort Consolidates the Network Perimeter

For Security, Reliability and Lower Maintenance

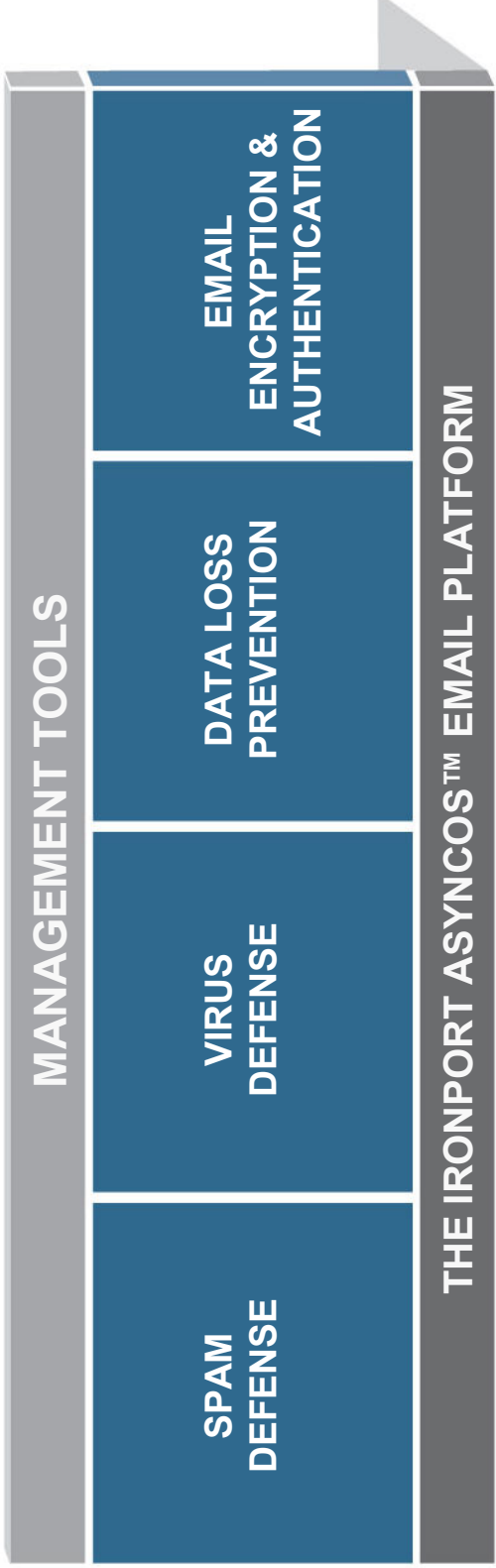
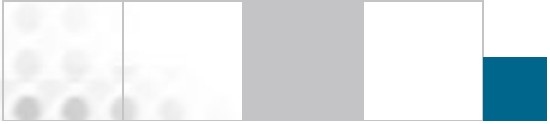
Before IronPort



After IronPort

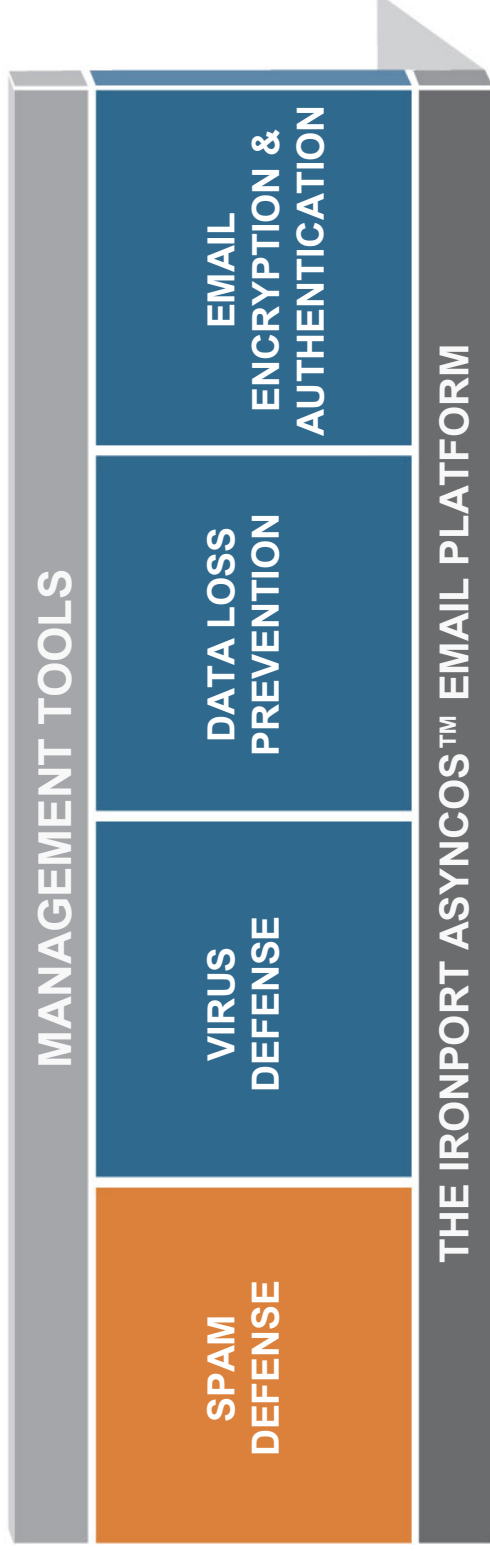


IronPort Architecture for Multi-Layered Email Security



Multi-layer Spam Defense

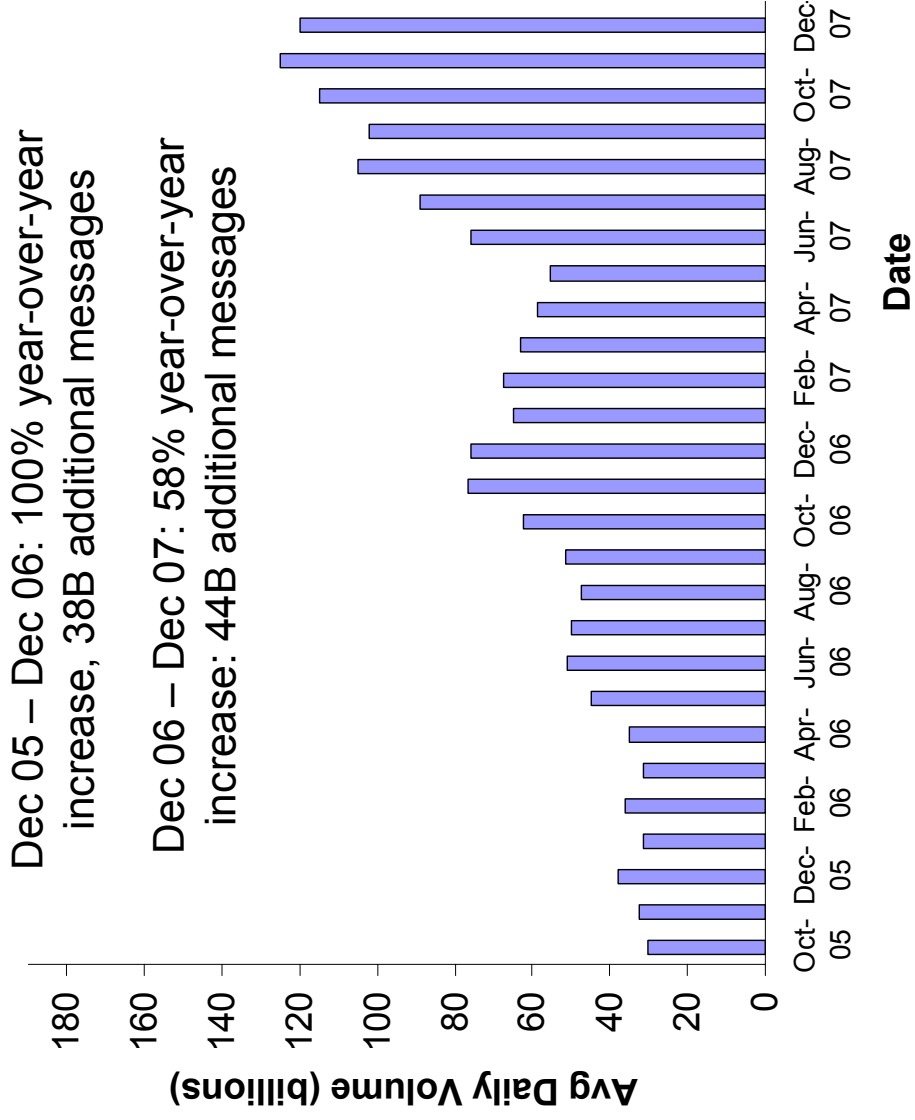
Best of Breed



- IronPort Reputation Filters – the outer layer defense
- IronPort Anti-Spam - stops the broadest array of threats – spam, phishing, fraud

Spam Volumes

2005 - 2008 Reality & Projections



Spam is changing rapidly

ATTENTION ALL DAY TRADERS AND INVESTORS

INVESTOR ALERT!
IT LOOKS LIKE ANOTHER RUN FOR SWNM!
WATCH SWNM LIKE A HAWK ON Tuesday July 1, 2006

Company Name: SOUTHWESTERN MEDICAL, INC.
Stock Symbol: SWNM
Monday Close: 0.11

Volume: 5,761
Change: UP 0.01
Market: ***EXPLOSION* *EXPLOSION* *EXPLOSION***
Trade Date: Monday, November 27, 2006
Company: CHINA HEALTH MGT NEW
Symbol: CNHC.PK
Price: \$1.44 (UP 7% on Friday)
Target: \$8

China Health Management Corp. Announces the Hospital Setup Proposal Received Additional Approval from K City, Yunnan, China
CNHC HAS BEGUN BOOMING! CHINA IS THE HOTTEST COUNTY BE IN RIGHT NOW! ADD CNHC TO YOUR RADAR!
*** CNHC ON MONDAY NOV 27 ***

> ----- Original Message -----
> From: "Evan Platt" <evan@at.espphotography.com>
> To: <users@at.spamassassin.apache.org>
> Sent: Friday, November 17, 2006 10:48 AM
> Subject: Re: I've got TORA.08 spelled with numbers?

>> At 07:44 AM 11/17/2006, you wrote:

>>>I'm g
>>>TORA.
>>>42167
>>>6
>>>8
>>>7
>>>6
>>>8
>>>0

Thunderbird

File Edit View Go Message Tools Help Plaxo

Get Mail Write Address Book Reply Reply All Forward Delete Not Junk Stop All Headers

Thunderbird thinks this message is junk.

Subject: [Connect to: iachetta@gfv.ultimatebarginhunters.com](#)
From: Ashiq Iachetta <iachetta@gfv.ultimatebarginhunters.com>
Date: 02.06.2007 12:34
To: post@hmm.info

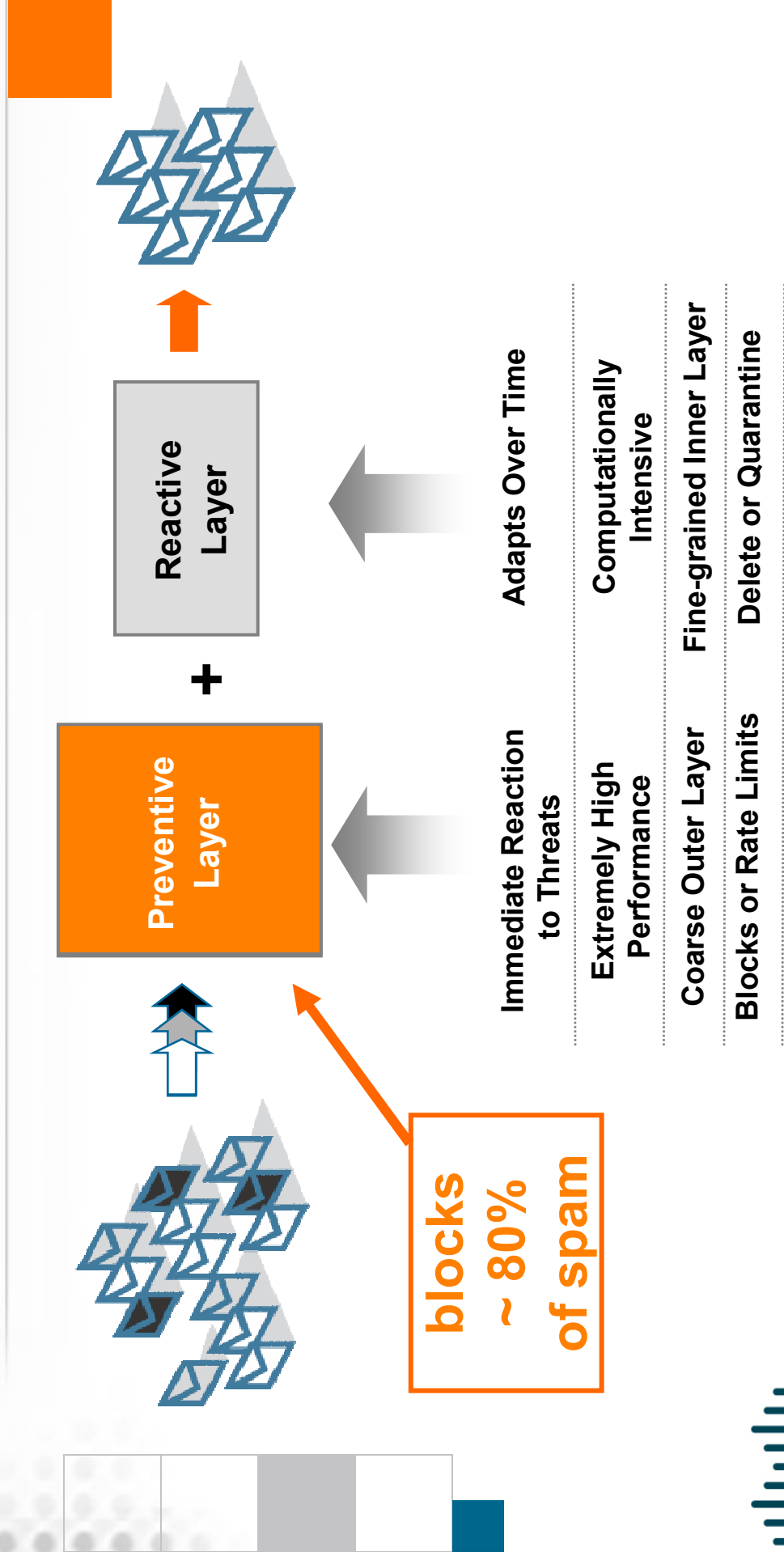
Last modified all text is. English language, published in.
 Copyrights for details trademark wikimedia foundation.
 All text is available under terms gnu.

PDF, Excel, MP3 ...



Multi-Layered Security

Preventive + Reactive = Defense in Depth



IronPort SenderBase® Network

Global Reach Yields Benchmark Accuracy

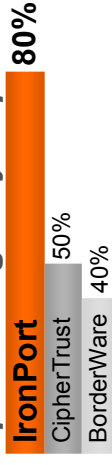
*The Dominant Force in Global
Email and Web Traffic Monitoring...*



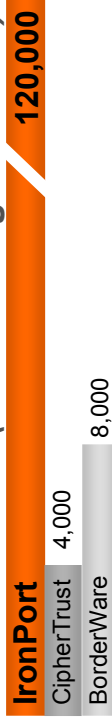
- 5B+ queries daily
- 150+ Email and Web parameters
- 25% of the World's Email Traffic

*...Results in Accuracy and
Advanced Protection*

Spam Caught by Reputation



Network Reach (Contributing Networks)



Virus Protection Lead



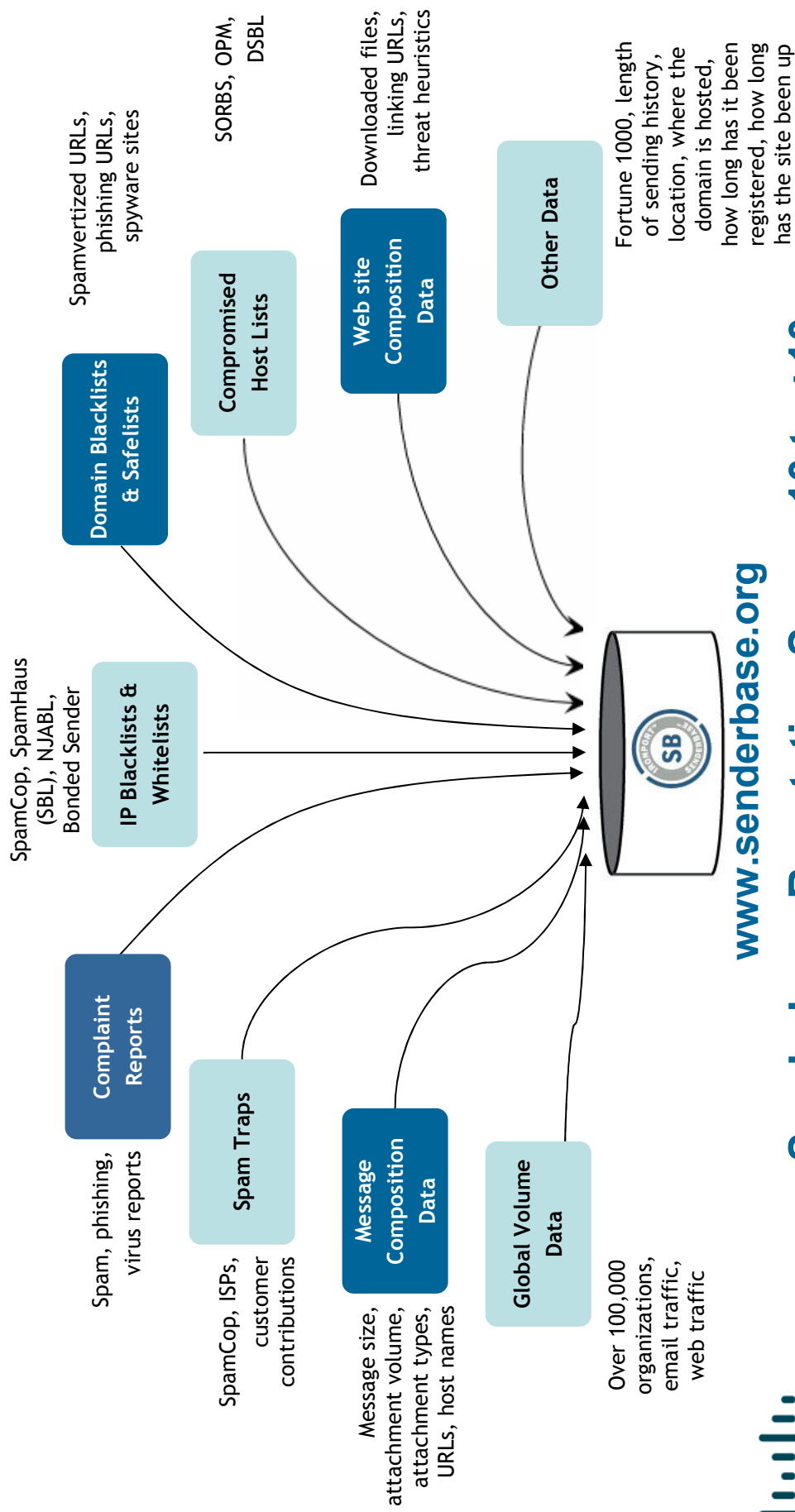
McAfee, Trend, Symantec, Sophos, CA, F-Secure

* 6/2005 - 6/2006. 175 outbreaks identified. Calculated as publicly published signatures from the listed vendors.



IronPort SenderBase™ Reputation

150 parameters for each IP

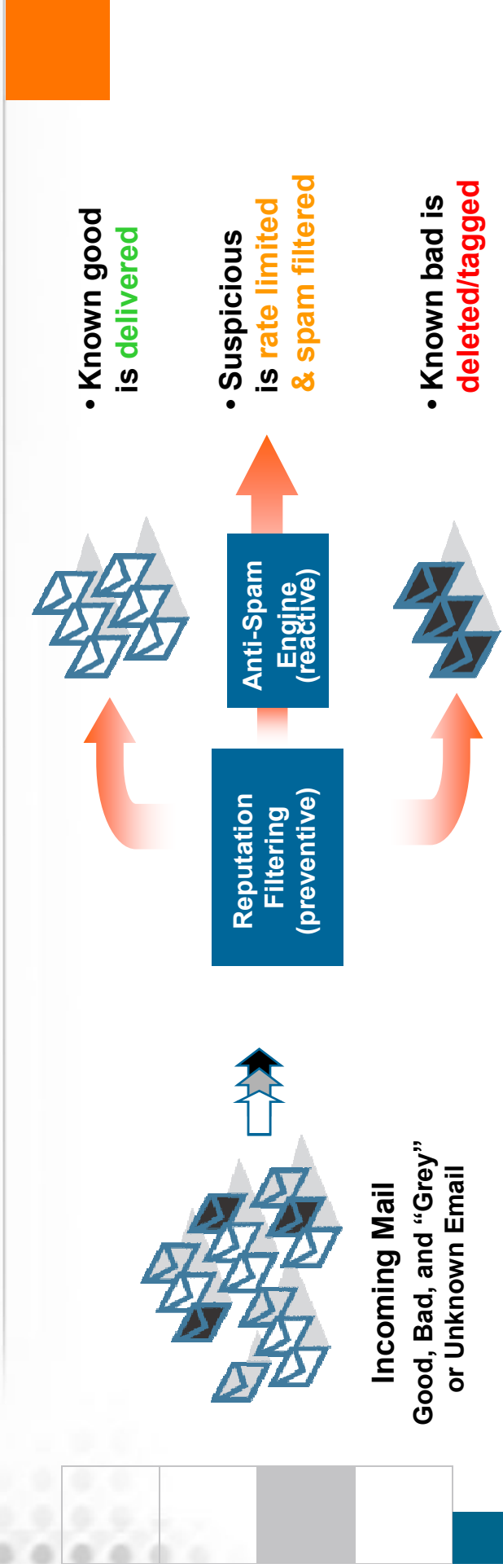


www.senderbase.org

Senderbase Reputation Score -10 to +10



IronPort Reputation Filters Stop 80% of Hostile Mail at the Door....



- Reputation Filters is a switch point
- IronPort uses identity & reputation to apply policy
- Sophisticated response to sophisticated threats

IronPort Reputation Filters

Dell Case Study



- **Dell's challenge:**
 - Dell currently receives **26M** messages per day
 - Only **1.5M** are legitimate messages
 - **68 existing gateways** running Spam Assassin were not accurate
- **IronPort solution:**
 - Reputation Filters block over **19M** messages per day
 - **5.5M** messages per day scanned by anti-spam engine
 - Replaced **68** servers with **8** IronPort C60s
- Accuracy of spam filtering increased **10x**
- Servers consolidated by **70%**
- Operating costs reduced by **75%**

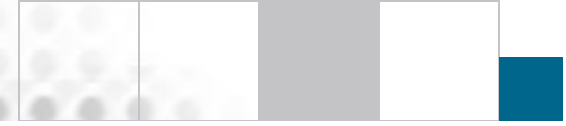


"IronPort has increased the quality and reliability of our network operations, while reducing our costs."

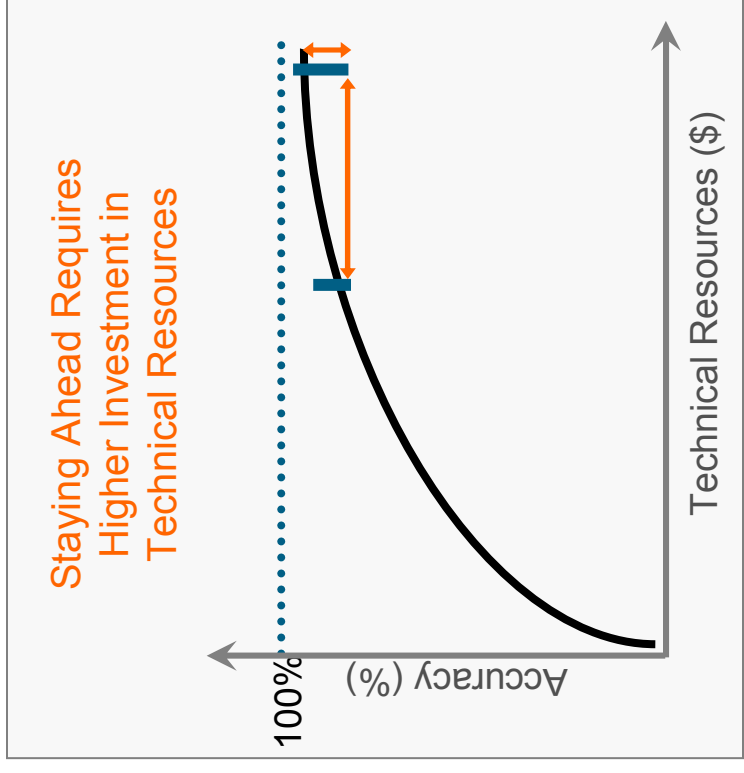
-- **Tim Helmsetetter**
Manager, Global Collaborative Systems Engineering and Service Management,
DELL CORPORATION

Self Defending Network 3.0

Extending Technology Leadership

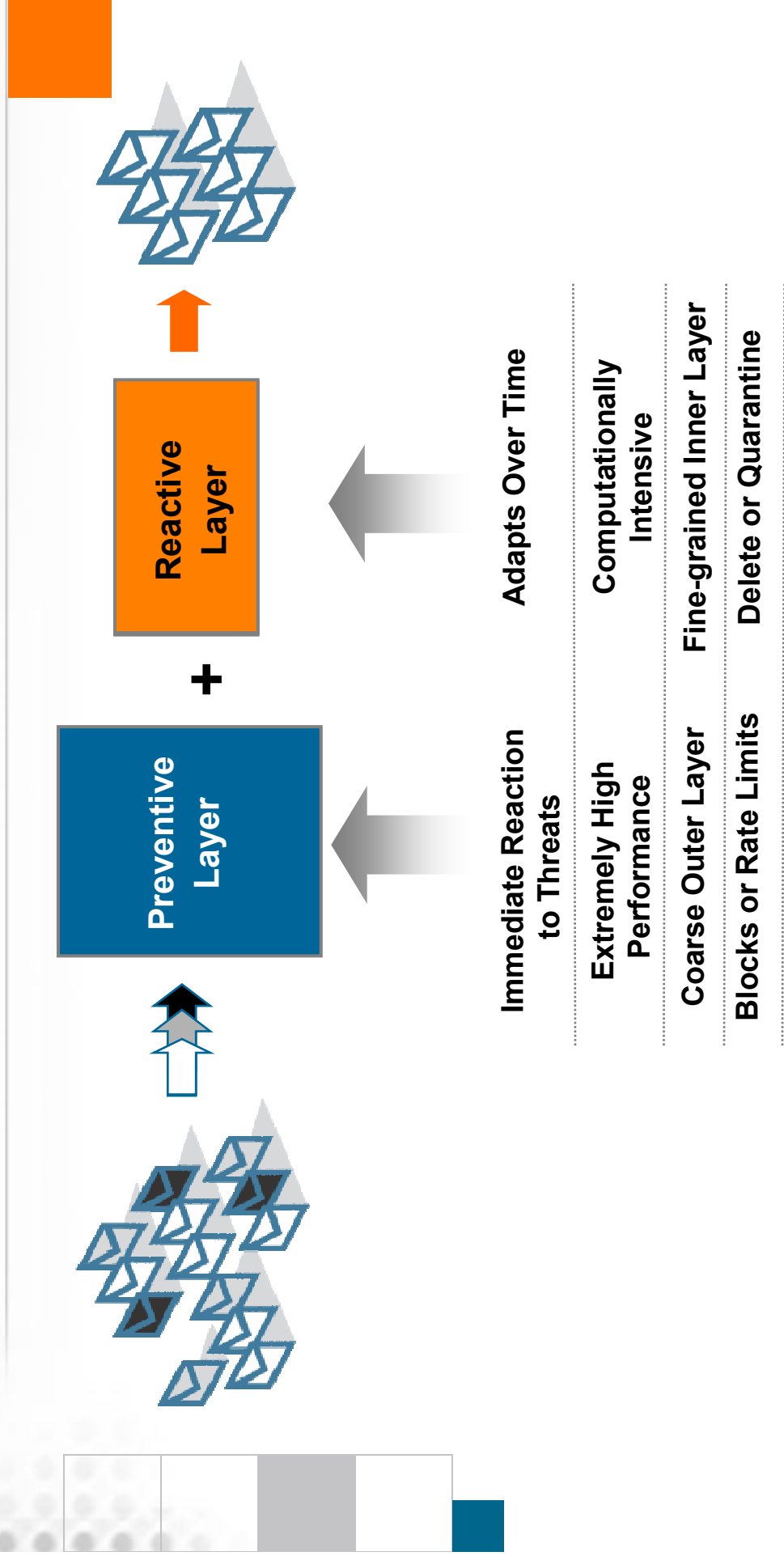


- Wide Traffic Inspection
- Firewalls, routers, email appliances, web appliances, end point security agents
- sharing data across multiple protocols, across multiple network egress points, and across multiple networks world wide

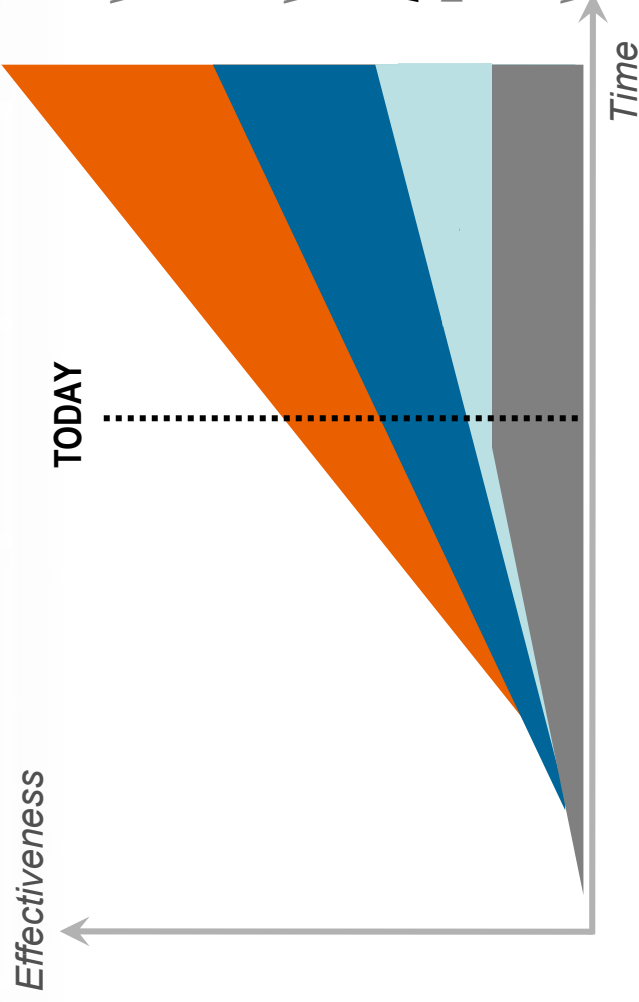


Multi-Layered Security

Preventive + Reactive = Defense in Depth



IronPort AntiSpam Broadens the Context with Web Reputation



Where? Web Reputation
Where does the call to action take you?

Who? Email Reputation
Who is sending you this message?

How? Message Structure
How was this message constructed?

What? Message Content
What content is included in this message?

- Content filtering techniques alone are inadequate
- Email reputation systems improved protection
- Combating new attacks demands Web reputation



SunTrust Bank: Please Validate

File Edit View Insert Format

From: SunTrust bank [antifraud.re]
To: Bruno Skracic
Cc:
Subject: SunTrust Bank: Please Vali



Dear SunTrust Bank client,
Recently there have been reports from our customers. In order to secure your banking details (credit card information we have).
This process is mandatory. Your credit card may be subject to a temporary suspension.
To securely confirm your information, please visit the following URL:
http://www.suntrust.com/personal
Thank you for your prompt attention to this matter and thank you for being a SunTrust Bank!

Do not reply to this e-mail as it is an unmonitored alias

© 2004 SunTrust Banks, Inc. All rights reserved. Member FDIC



Together, we can save a life

Katrina Relief Update



- Hurricane Katrina: Facts-at-a-Glance
Survivor Stories and News
Latest Supporters' Info

Microsoft Outlook interface showing email details: From: Tom Gillis, To: Tom Gillis, Subject: Important, Attachments: www.fireupabigone.org

No attachment - Payload delivered via web

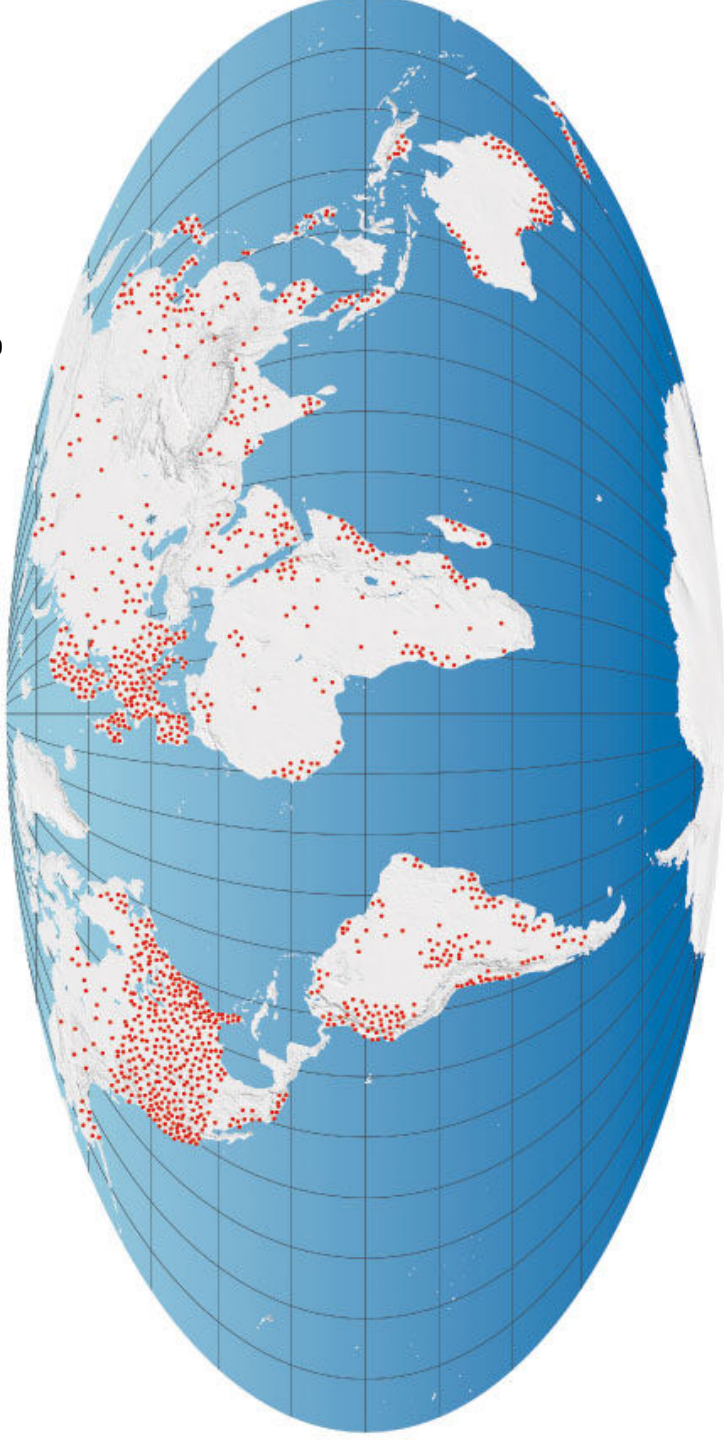
URL



IronPort SenderBase® Network

First, Biggest, Best Reputation System

Global Email and Web Traffic Monitoring



Over 100,000 contributing networks
Over 20M IP addresses tracked globally
View into over 25% of email traffic
Over 150 parameters tracked



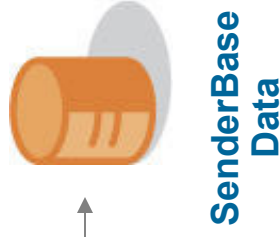
Web Reputation

Data Makes the Difference

Parameters

- URL Blacklists
- URL Whitelists
- URL Categorization Data
- HTML Content Data
- URL Behavior
- Global Volume Data
- Domain Registrar Information
- Dynamic IP Addresses
- Compromised Host Lists
- Web Crawler Data
- Network Owners
- Known Threats URLs
- Offline data (F500, G2000 ...)
- Web Site History

THREAT PREVENTION IN REALTIME



Web Reputation Scores (WBRS)
-10 to +10

IronPort Anti-Spam Press Reviews

InfoWorld

2007 Technology of the Year: Best Anti-Spam

Jan 2007

Competitors tested:

Symantec, Microsoft, Mirapoint, ProofPoint

“easy setup”

“excellent spam filtering”

“no tuning necessary”

*“the fewest false positives of
any solution tested”*

info security

Anti-Spam Bake-Off Winner

Dec 2006

Competitors tested:

CipherTrust, Borderware, Sophos,
SonicWall

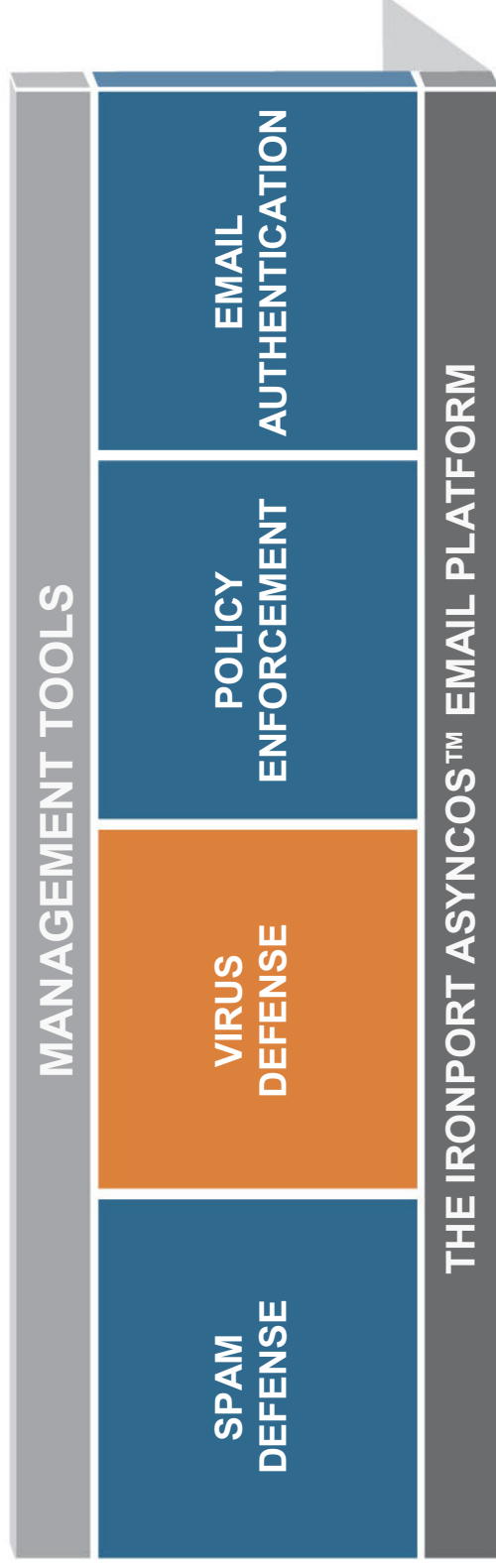
*“The superiority of IronPort . . .
seems abundantly clear”*

*“We did not have to rescue a
single legitimate message”*

*“(IronPort) is the absolute must
from this test”*



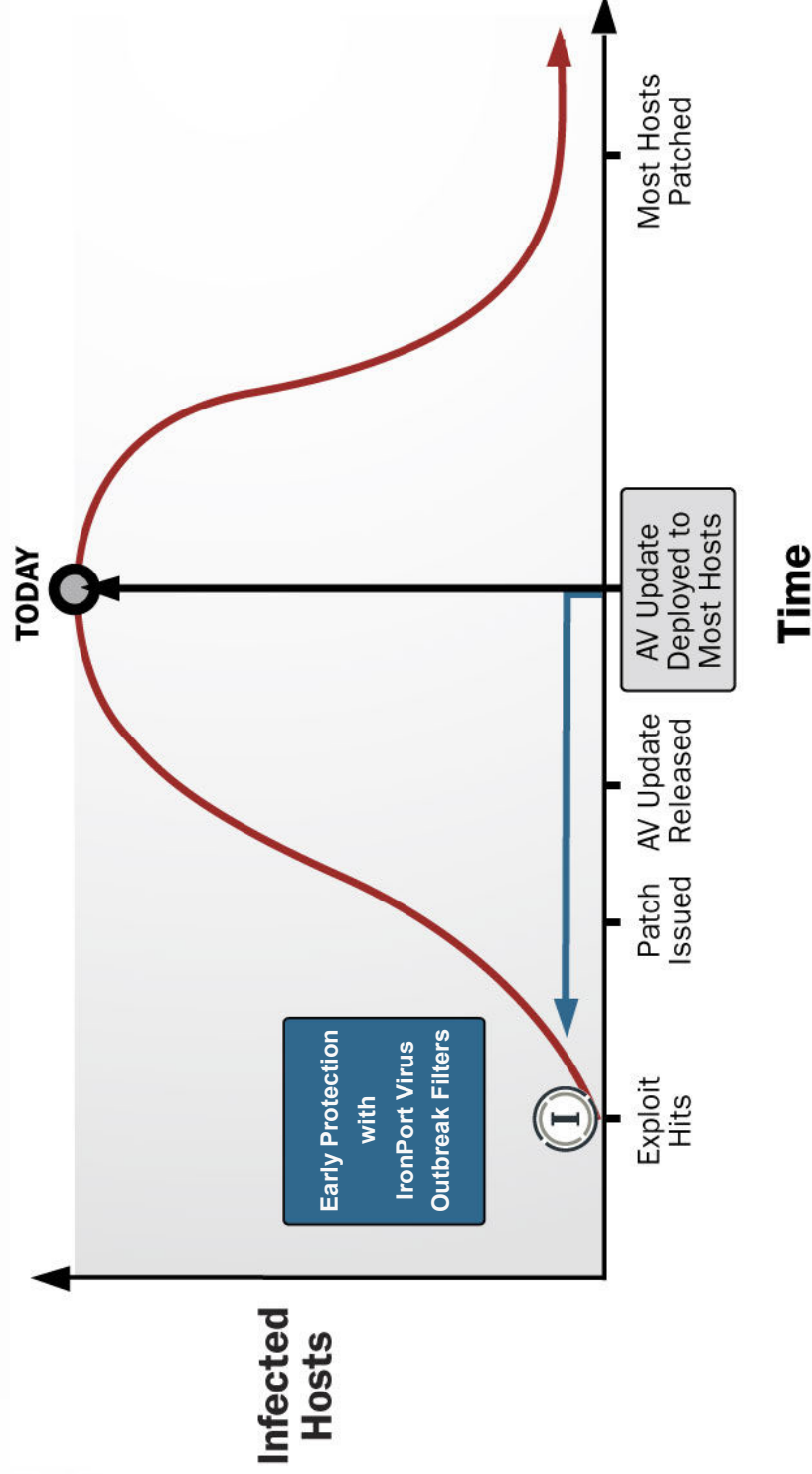
Multi-layer Virus Defense *Best of Breed*



- IronPort Virus Outbreak Filters stop outbreaks 13 hours ahead of signatures
- Sophos Anti-Virus signature based solution with industry leading accuracy

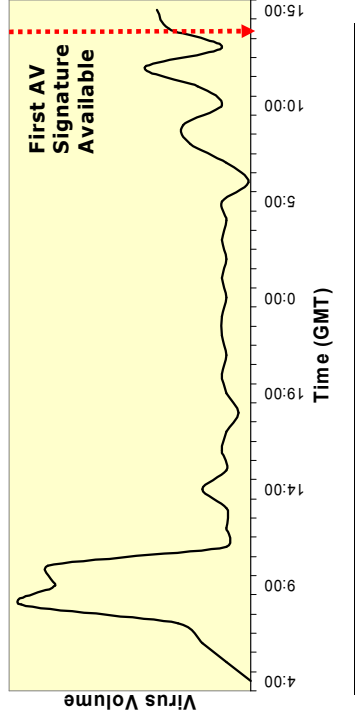
IronPort Virus Outbreak Filters™

First Line of Defense

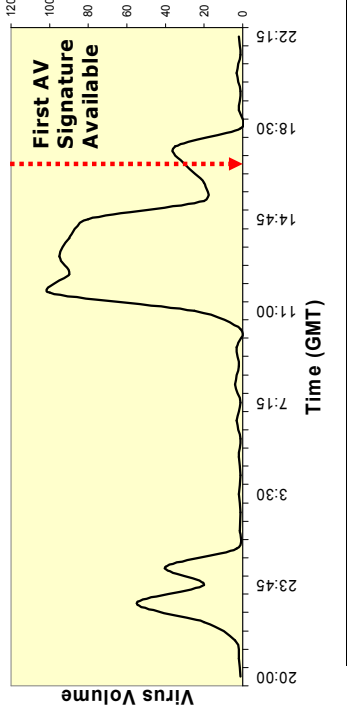


Traditional AV Solutions Aren't Responding Quickly Enough . . .

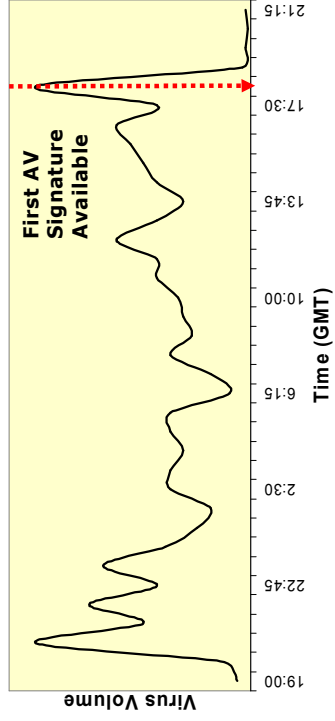
Mytob-HJ: 4-19-06



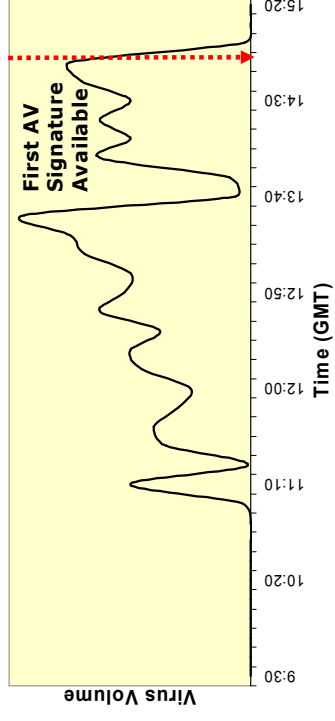
Bagle-GT: 4-21-06



FeebsDI-Q: 6-07-06



Kukudro-A: 6-27-06

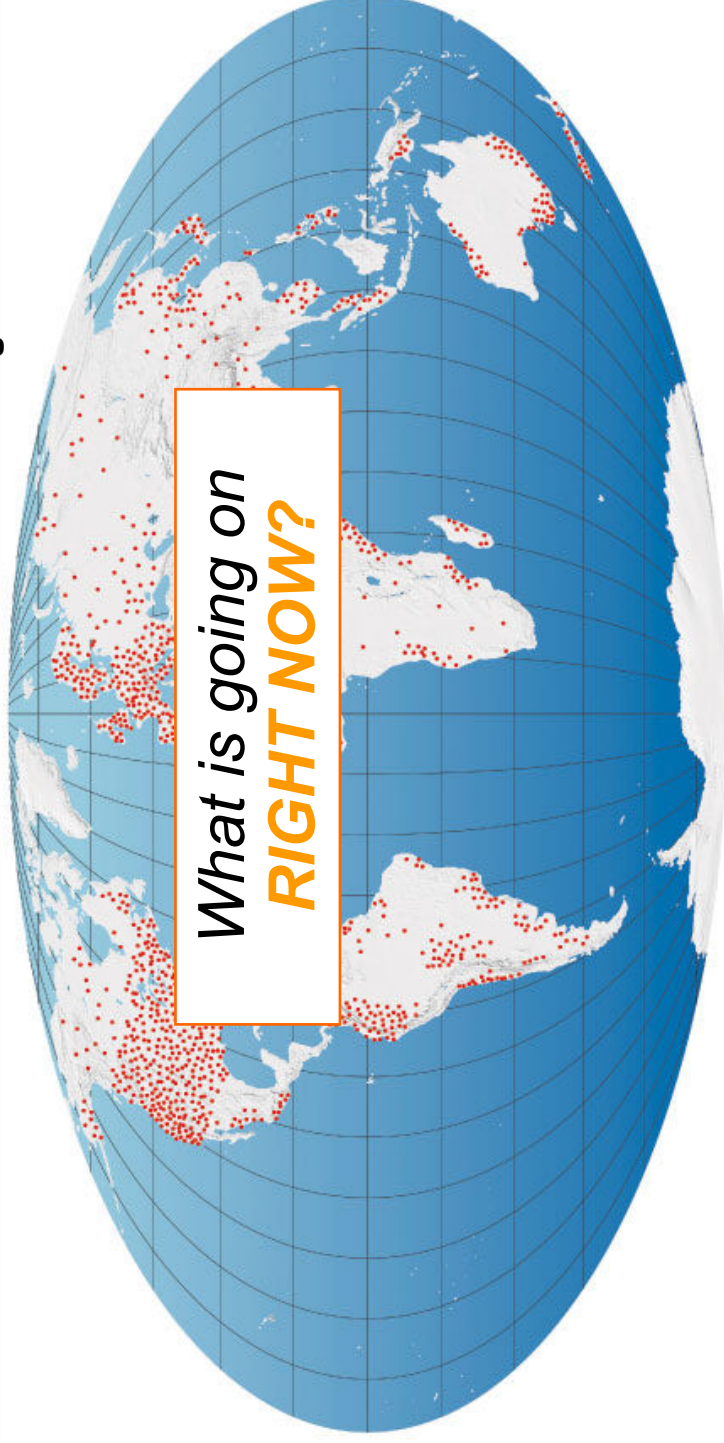


Calculated as publicly published signatures from the following vendors: Sophos, Trend Micro, Computer Associates, F-Secure, Symantec and McAfee. If signature time is not available, first publicly published alert time is used.

IronPort SenderBase® Network

First, Biggest, Best Reputation System

Global Email and Web Traffic Monitoring

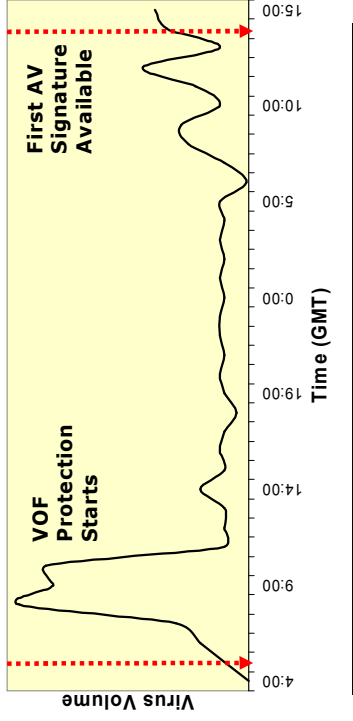


Over 100,000 contributing networks
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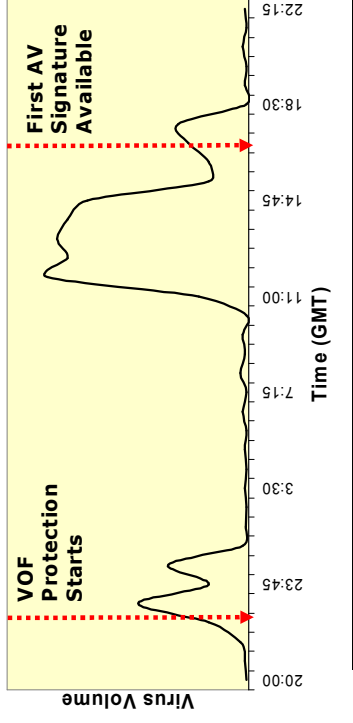


Introducing Virus Outbreak Filters

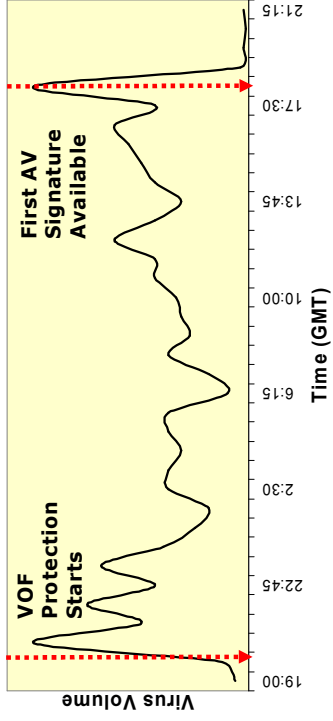
Mytob-HJ: 32 hrs 57 mins Lead Time!



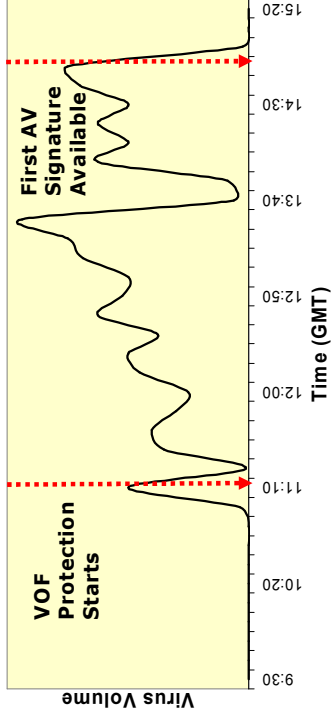
Bagle-GT: 18 hrs 28 mins Lead Time!



FeebsDI-Q: 21 hrs 59 mins Lead Time!



Kukudro-A: 3 hrs 38 mins Lead Time!



Calculated as publicly published signatures from the following vendors: Sophos, Trend Micro, Computer Associates, F-Secure, Symantec and McAfee. If signature time is not available, first publicly published alert time is used.



Virus Outbreak Filters Advantage

Virus Name	Date	Virus Description	Lead Time (hh:mm)
Troj/Dloadr-BCK	7/24/07	Installs spyware on infected PCs.	10:06
Troj/Yar-A	5/24/07	Widely-spammed out email teaser promising a trailer of the film "Pirates of the Caribbean 3". Downloads spyware onto infected computers.	3:20
Trojan.Dropper	5/10/07	Trojan that attempts to download malicious code.	10:40
W32.Virutldr	4/12/07	Spammed email that asks recipients to open spyware attachments entitled "document.txt.exe" and "video.zip".	31:12
Troj/DwnLdr-GFN	3/4/07	Installs backdoor and communicates via HTTP, thus bypassing firewall filters.	17:31
W32/WowPWS-AU	3/3/07	Mass mailing worm that sends emails with the subject: "Chinese test missile obliterates satellite!". Asks users to open spyware infected file.	6:51
Troj_Agent.JAW	1/14/07	Spammed email message that contains PDF attachment. Once attachment is opened, backdoor is installed for remote hackers to access the PC.	20:08

Average lead time*over 13 hours

Major Outbreaks blocked *175 outbreaks

Total incremental protection*over 94 days

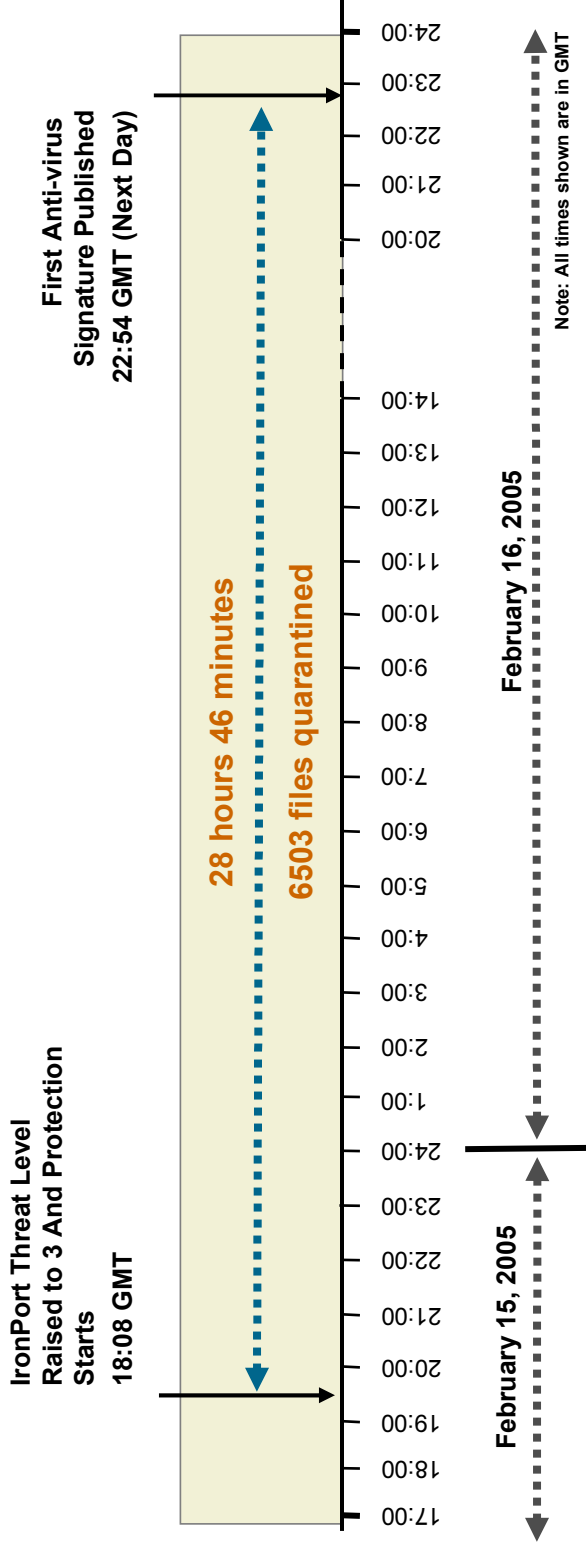


* June 2005 –July 2006. Calculated as publicly published signatures from the following vendors: Sophos, McAfee, Trend Micro, Computer Associates, F-Secure, Symantec and McAfee. If signature time is not available, first publicly published alert time is used.

IronPort Outbreak Filters Protect G2000 Company From MyDoom.BB

MyDoom Variant—MyDoom.BB (February 15, 2005)

G2000 Company Protected By IronPort's Virus Outbreak Filters



\$65K saved @ \$200/desktop, 5% infected

IronPort Policy Enforcement

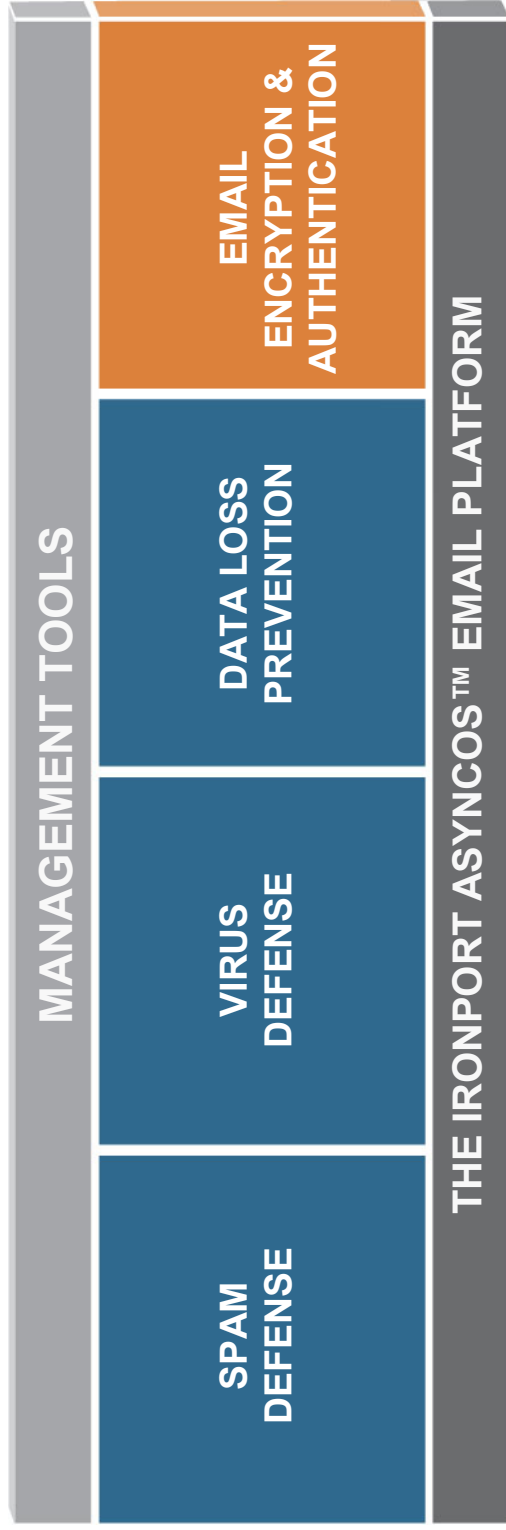
Inbound/Outbound Content Filtering for Compliance



- Flexible Policy Engine from Blocking Attachments to Enforcing Regulatory Compliance
- Compliance Solutions and Encryption keep communications private and secure

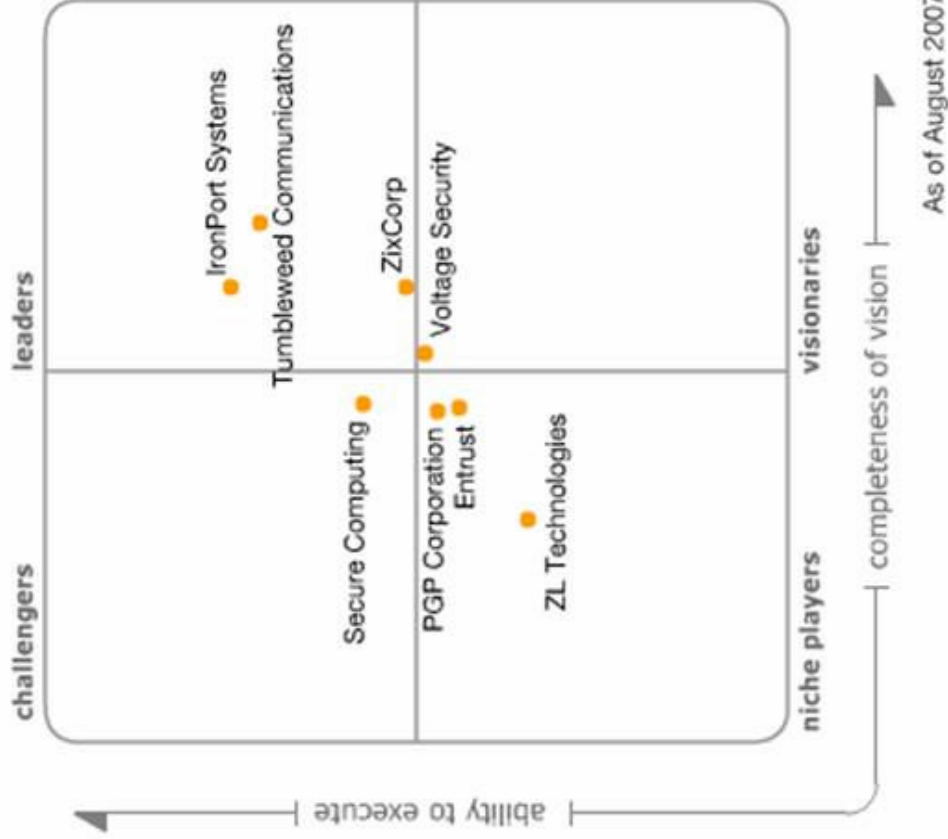
Email Encryption & Authentication

Superior Security and Identity Protection



- DomainKey Signing - establishes and protects your identity on the Internet
- IronPort Bounce Verification – protects from misdirected bounce attacks
- Directory Harvest Attack Prevention –blocks attempts to steal email directory information

Leader in Email Encryption!



Gartner

Magic Quadrant for E-Mail Encryption Boundary 2007

Source: Gartner RAS Core Research

You need that competitive analysis?

Mail me at [mschneider@ironport.com!](mailto:mschneider@ironport.com)



As of August 2007

The Challenger in Web Security IronPort S-Series Appliance

IronPort S-Series

- Control & **secure** Web traffic
- Comprehensive management & visibility
- Industry-leading accuracy against Web-based threats
- Carrier-class performance



IronPort Web Security Appliance



Next Generation Web Security Platform

Web Traffic: Clear & Present Risks

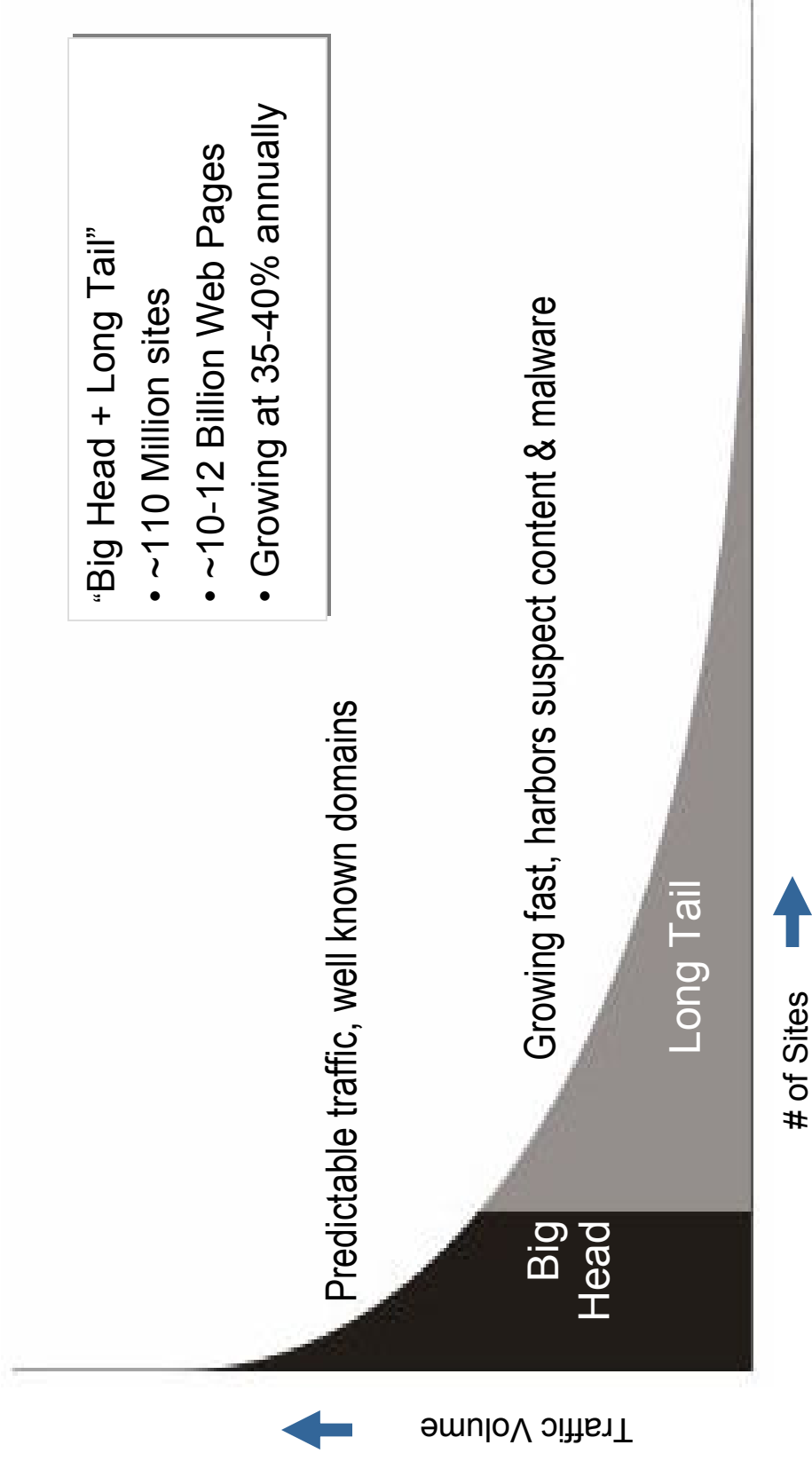
The Circle of Risk



- Over 75% of all Enterprises are infected with Spyware & Malware
- 35-40% of Web usage is non-business related (IDC Research)
- Malware threats & AUP violations result in compliance & legal exposure

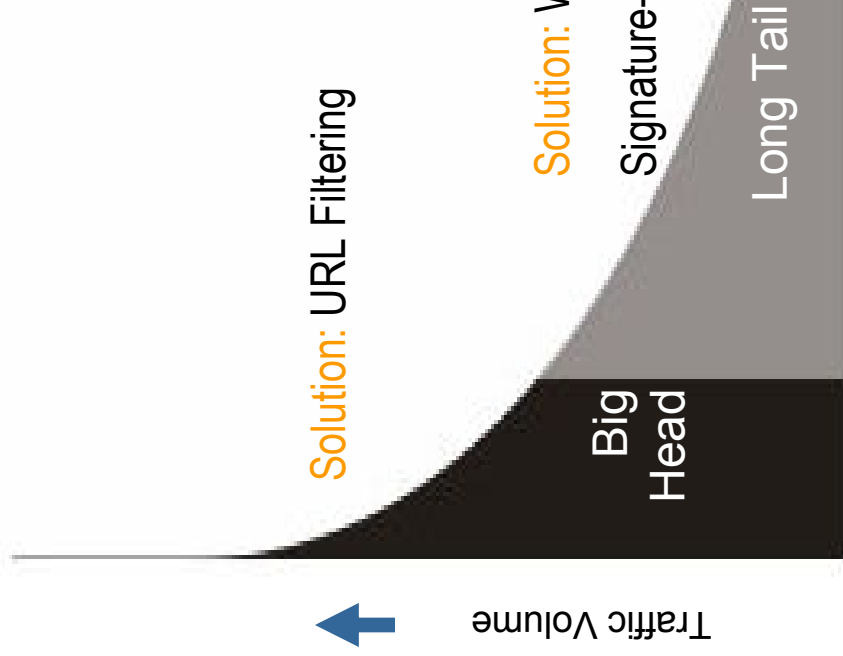
Web Traffic

The Long Tail Gets Longer



IronPort S-Series

Addressing the Entire Spectrum of Web Traffic



IronPort Web Security Appliance

- Protects against known & unknown sites
- Best of breed signature scanning

Current Systems Not Designed for Today's Problems

- Low accuracy
- High latency / throughput
- Limited visibility to security threats



IronPort SenderBase Network

Largest Email & Web Traffic Monitoring Network



Largest: over 25% of traffic from 120,000+ sources

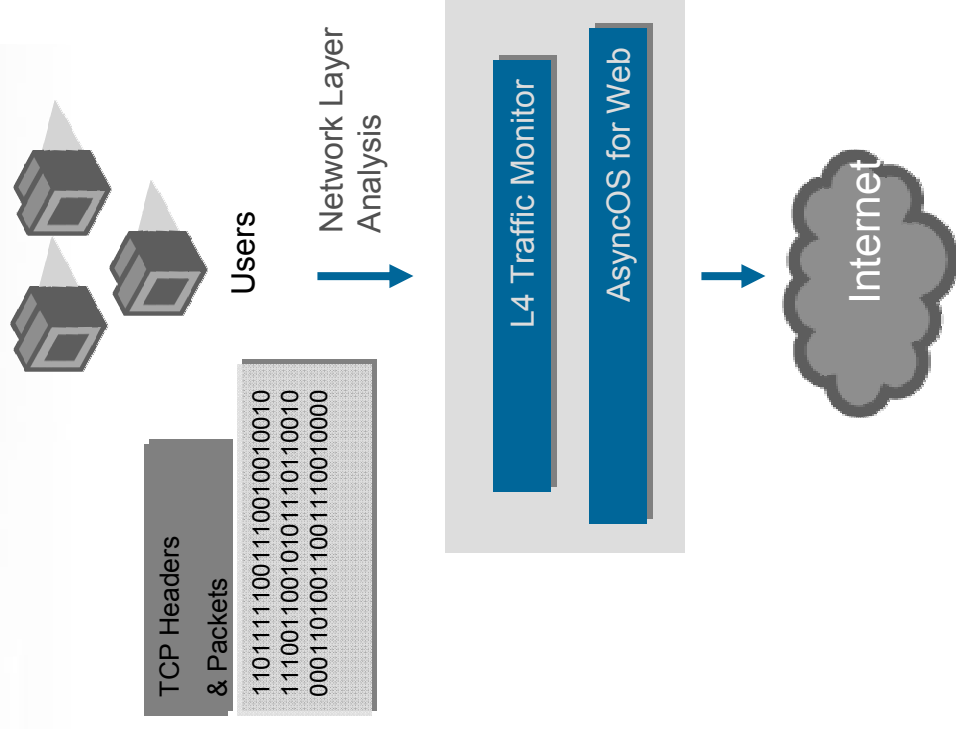
Broadest: 150 cross-protocol parameters

Best: Two year "head start" vs. alternative systems

Integrated L4 Traffic Monitor

Wire Speed Network Layer Scanning for Malware

- Scans all 65,535 ports at wire speed
- Detects rogue phone home activity
- Catches malware that attempts to bypass Port 80



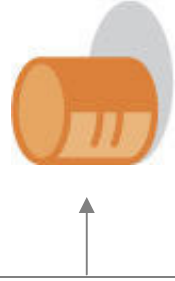
Web Reputation Filters

Data Makes the Difference

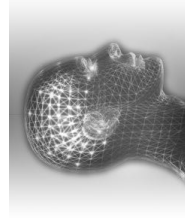
Parameters

- URL Blacklists
- URL Whitelists
- URL Categorization Data
- HTML Content Data
- URL Behavior
- Global Volume Data
- Domain Registrar Information
- Dynamic IP Addresses
- Compromised Host Lists
- Web Crawler Data
- Network Owners
- Known Threats URLs
- Offline data (F500, G2000...)
- Web Site History

THREAT PREVENTION IN REALTIME



SenderBase
Data



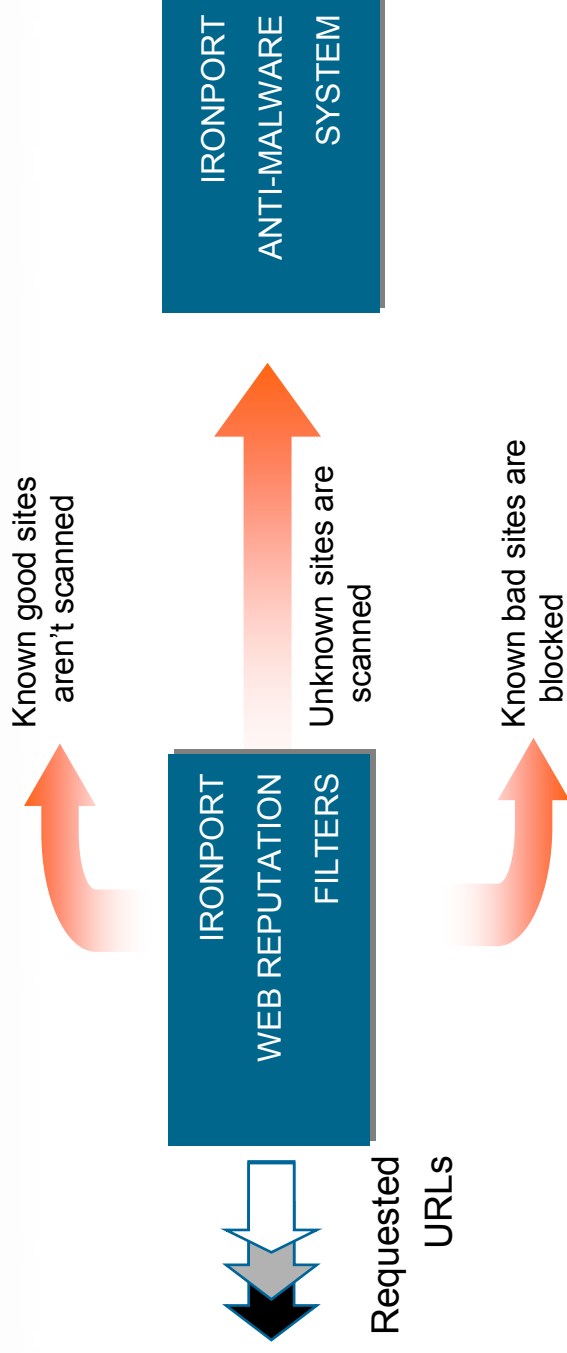
Data Analysis/
Security Modeling



Web Reputation
Scores (WBRs)

-10 to +10

Dynamic Application of Policies

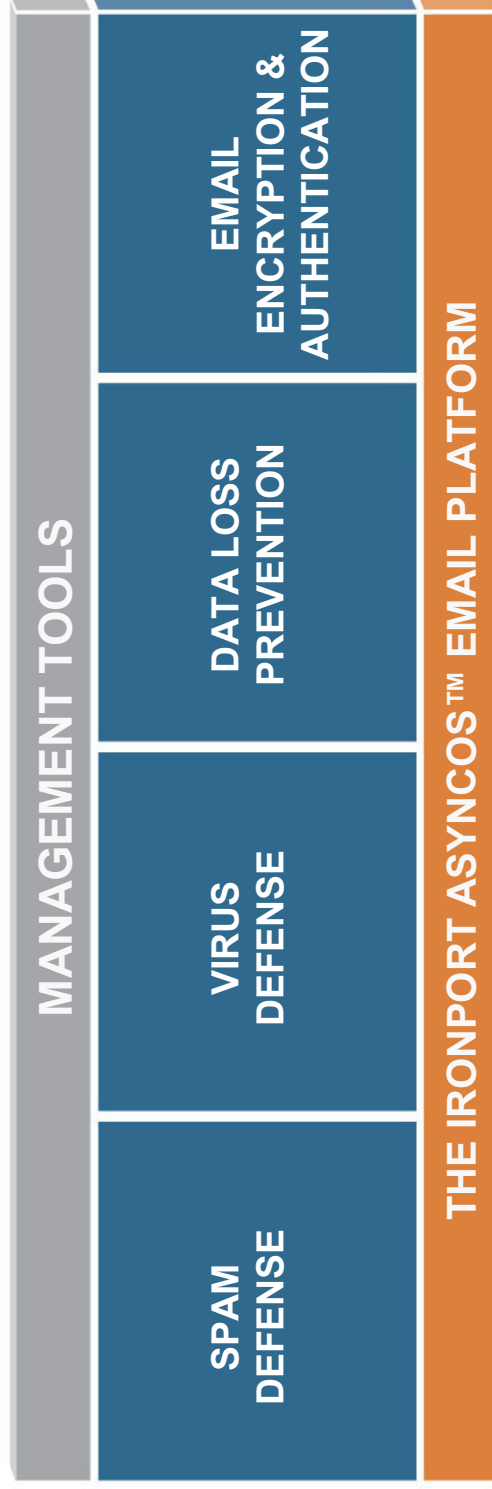


- IronPort Web Reputation Filters is a powerful *first* layer of defense
- IronPort Anti-Malware System provides a sophisticated *second* layer of defense

The Platform IronPort AsyncOS

IronPort AsyncOS™

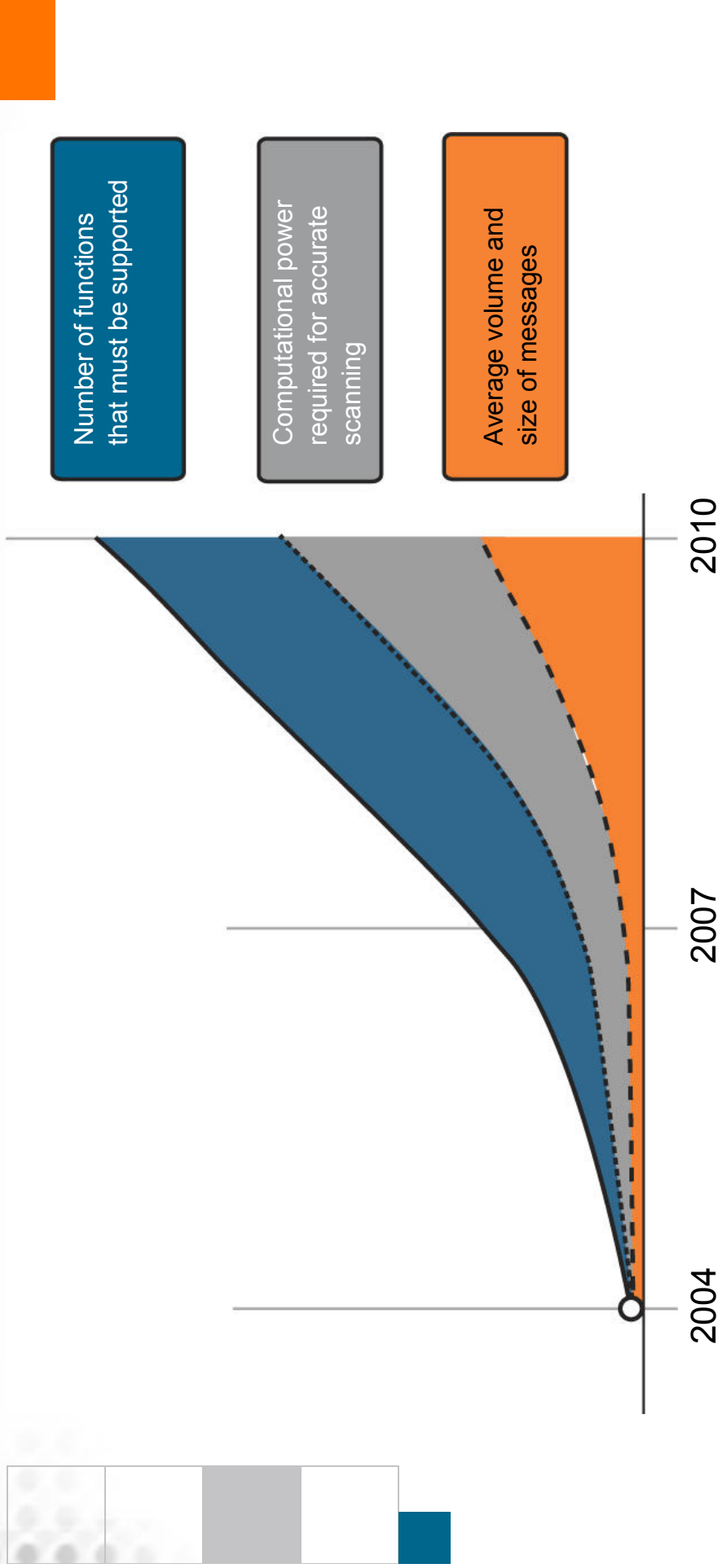
Unmatched Scalability and Security



- AsyncOS scalable and secure OS optimized for messaging
- Advanced Email Controls protect reputation and downstream systems
- Standards-based Integration replaces legacy systems with ease

Scalable and Extensible Platform

Meeting Security Needs – Today and Tomorrow



IronPort AsyncOS

Revolutionary Email Delivery Platform



Traditional Email Gateways
And Other Appliances

200
Concurrent
Connections

Low Performance/
Peak Delivery Issue

Disk I/O
Bottlenecks

Unable To Leverage
Full Capability
Components

Single Queue
for all destinations

Queue backup
delays all email



IronPort Email Security Appliances

10,000
Concurrent
Connections

High Performance/
Sure Delivery

CPU

Limited Solely
By CPU Capacity

Per-Destination
Queue

Fault-Tolerance
and Custom
Control

IronPort Email Security Manager™

Single view of policies for the entire organization

Categories: by Domain, Username, or LDAP

- Allow all media files
- Quarantine executables
- Mark and Deliver Spam
- Delete Executables
- Archive all mail
- Virus Outbreak Filters disabled for .doc files

Incoming Mail Policies

Find Policies		Email Address:		Find Policies		
		<input checked="" type="radio"/> Recipient <input type="radio"/> Sender				
Policies						
Add Policy...						
Order	Policy Name	Anti-Spam	Anti-Virus	Content Filters	Virus Outbreak Filters	Delete
1	IT Staff	(use default)	(use default)	QuarantineEXEs	(use default)	
2	Sales	IronPort Positive: Deliver Suspected: Deliver	(use default)	DelMsgsWithEXEs	(use default)	
3	Legal	(use default)	(use default)	ArchiveMail QuarantineEXEs StripMediaFiles	Enabled	
	Default Policy	IronPort Positive: Drop Suspected: Deliver	Repaired: Deliver Encrypted: Deliver Unscannable: Deliver Virus Positive: Drop	QuarantineEXEs StripMediaFiles	Enabled	

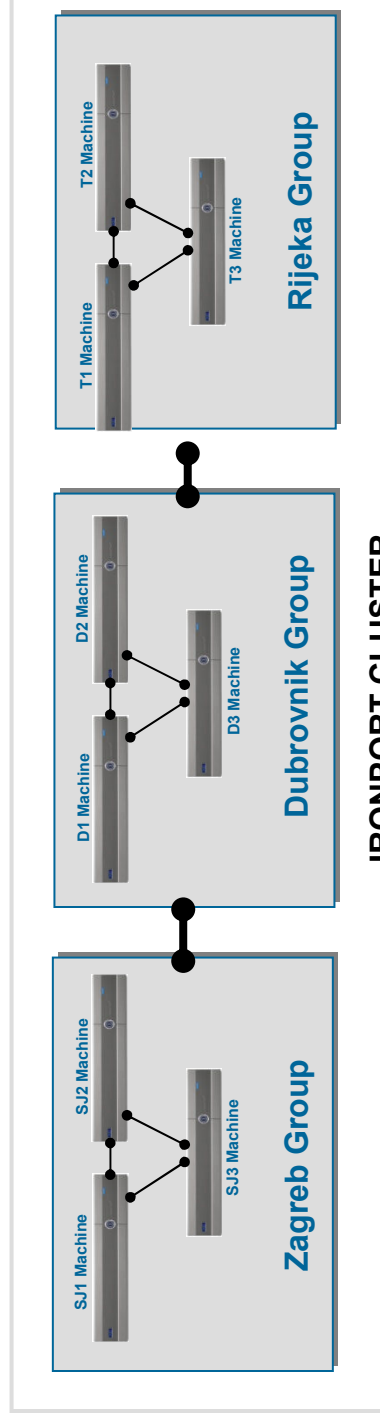
Key: Default Custom Disabled

“Email Security Manager serves as a single, versatile dashboard to manage all the services on the appliance.” -- PC Magazine 2/22/05



IronPort Centralized Management

- Log in anywhere, control everywhere
- Interface assures configuration consistency
- Apply changes to a machine, group, or cluster
- Test on single system, “promote” to cluster

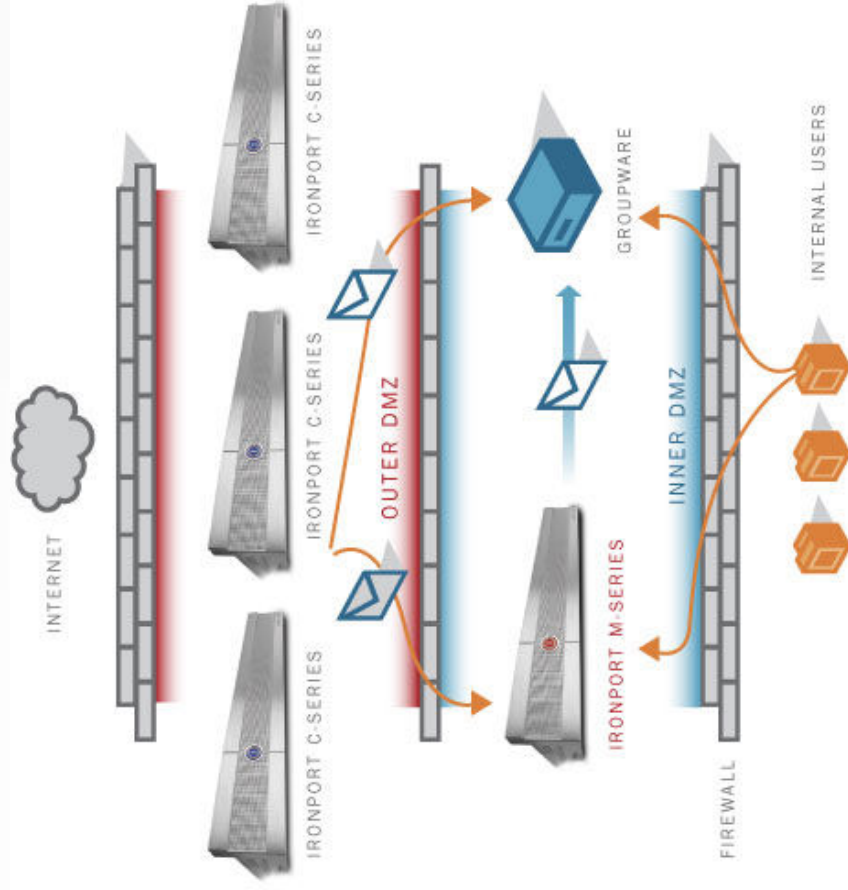


IRONPORT CLUSTER

IronPort M-Series™

Security Management Appliances

- Centralized, self-managing quarantine appliance
- Provides complete end-user self-service, drives down administrator load
- Centralized Reporting and Message Tracking Console



Sounds good? Test it!

- **Free evaluation for 30 days**
 - starts with activation of keys on unit
 - can be extended on request
- **any size and any way**
 - you get the right units for your needs
 - different ways of testing (life/ stealth, parallel, offline)
 - full support, full functionality
- About 85% of users who evaluate become happy customers!

Get In Contact

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