

IronPort Perimeter Security Appliances

EMAIL & WEB OVERVIEW



IronPort is now
part of Cisco.



Email Security Overview

IronPort® Perimeter Security Appliances

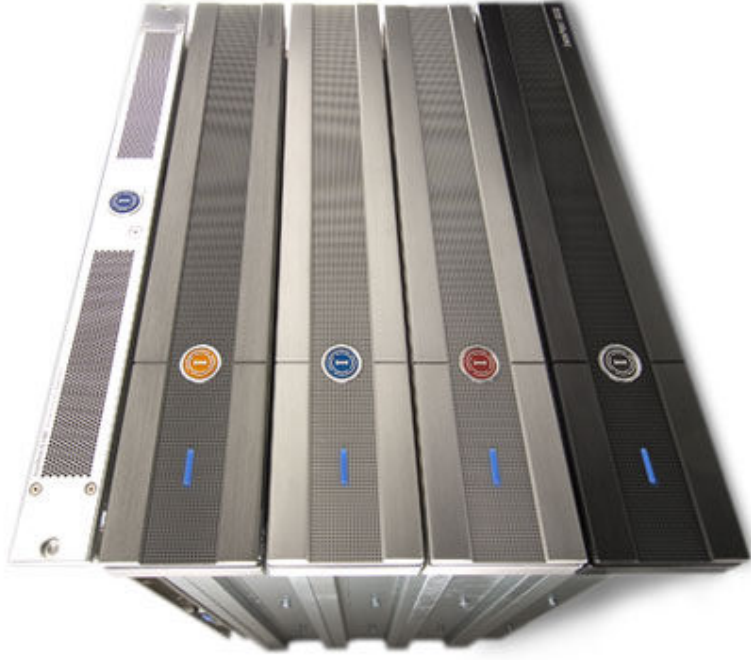
IronPort's
SenderBase



EMAIL
Security
Appliance

WEB
Security
Appliance

Security
MANAGEMENT
Appliance



Web Security

Email Security

Security management



IronPort + Cisco

Extending Market Leadership



- **Customer Leadership**

Over 6,000 customers globally
99% customer retention rate

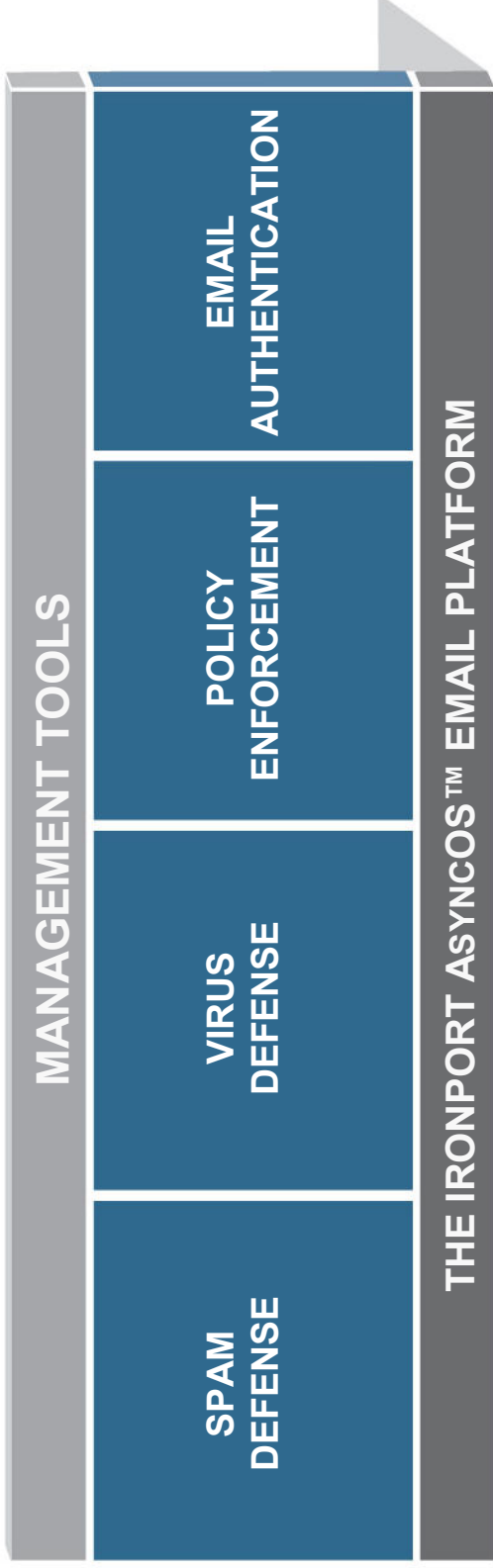
- **Technology Leadership**

Industry leading email and Web security applications and management tools

- **Global Leadership**

Worldwide operations and infrastructure

IronPort Architecture for Multi-Layered Email Security

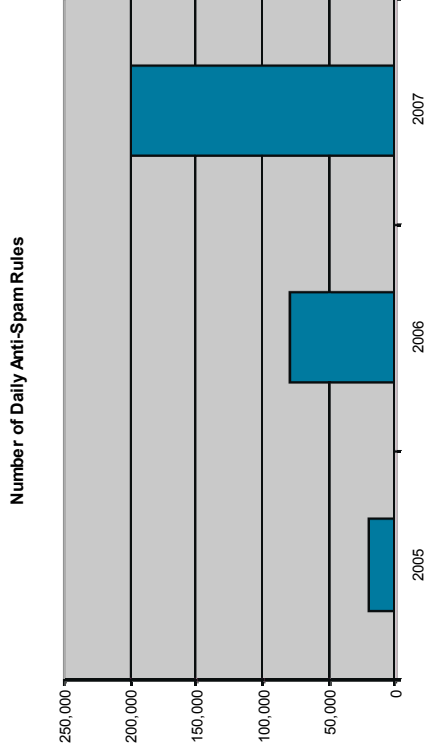


Spam Trends

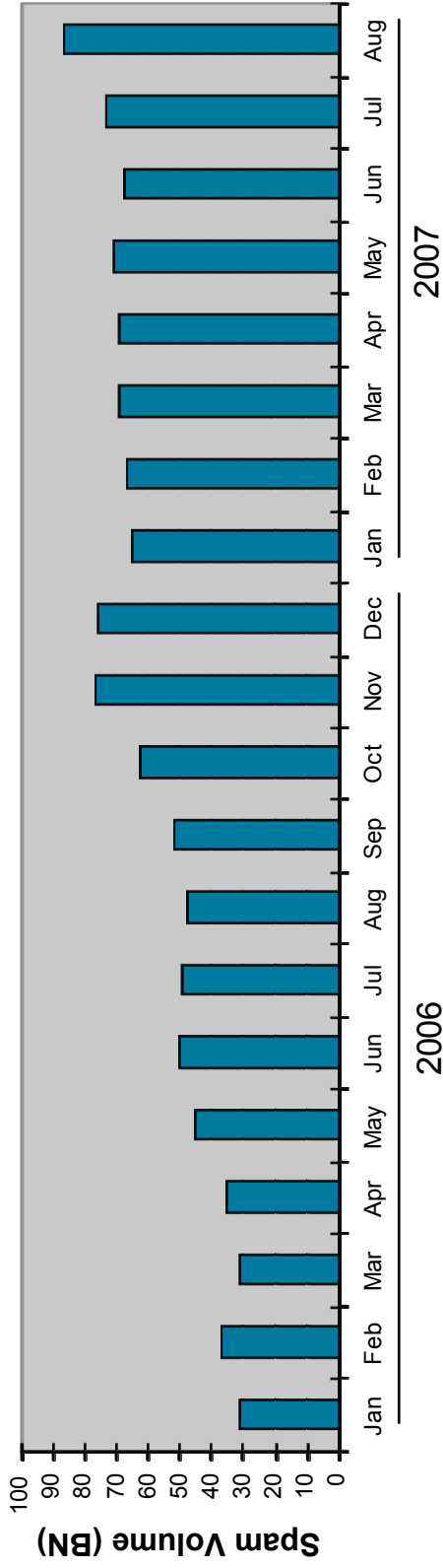
Through the first half of 2007

- Spam volumes up 18% month over month
- New spammer tactics
 - Image link spam
 - PDF spam
 - XLS spam

Increase In Average Daily Spam Rules



Average Daily Spam Volume By Month: 2006-2007



The IronPort SenderBase® Network

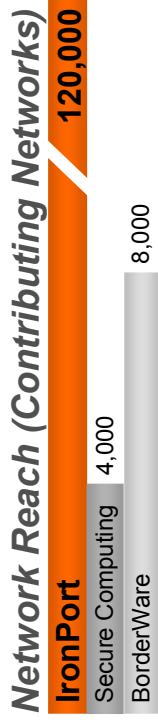
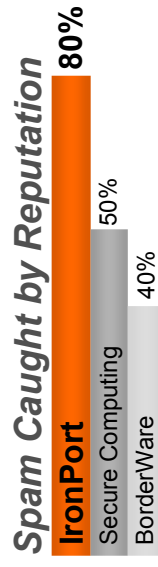
Global Reach Yields Benchmark Accuracy

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



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

*...Results in Accuracy and
Advanced Protection*

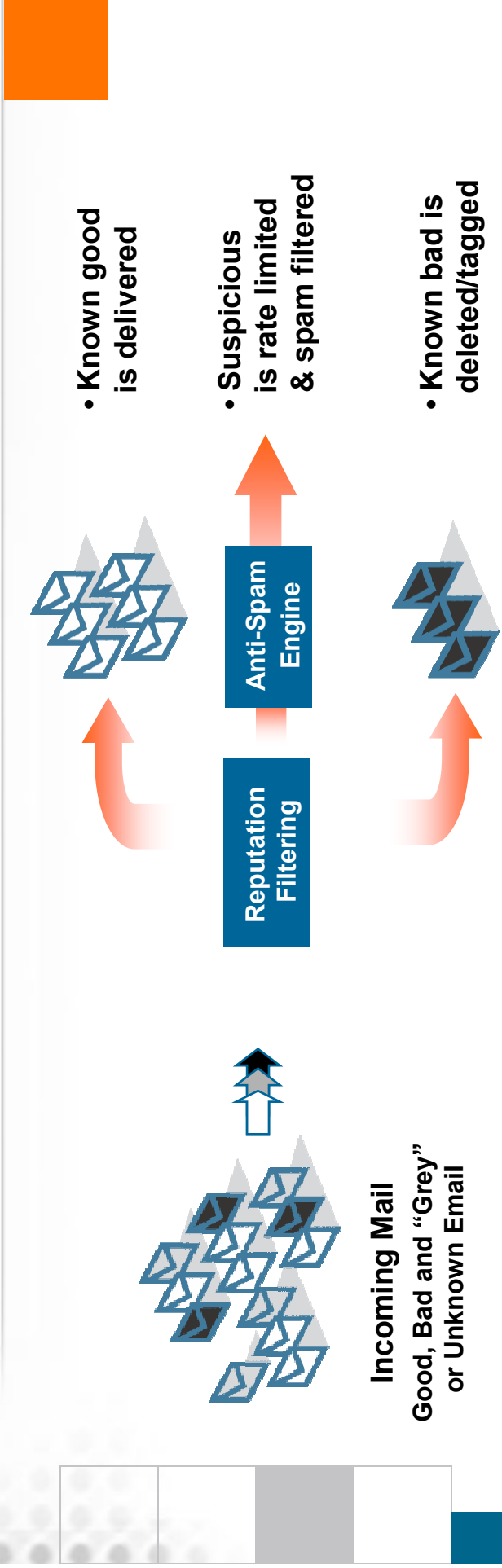


McAfee, Trend, Symantec, Sophos, CA, F-Secure

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



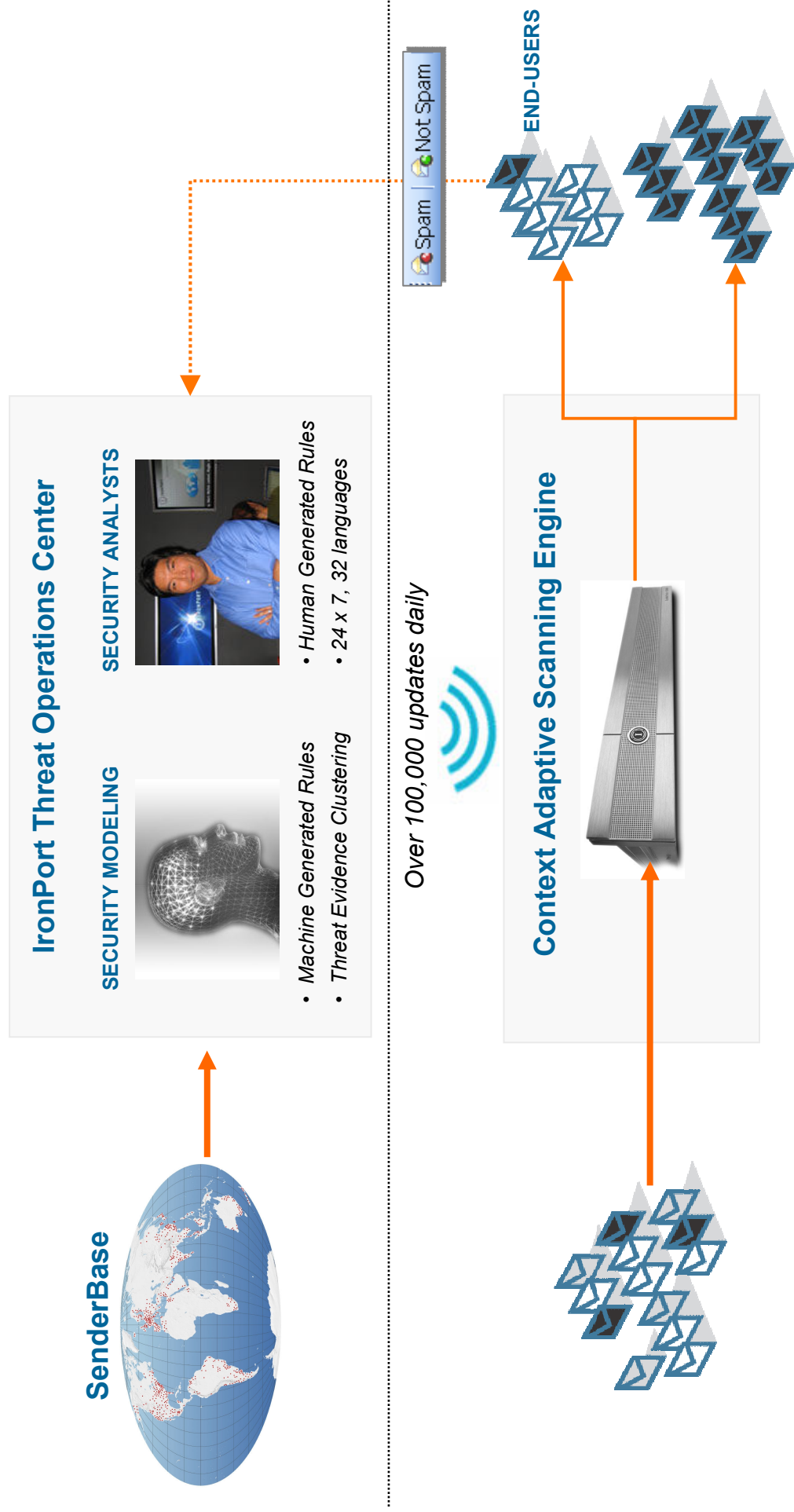
IronPort Reputation Filters™ Stop 80% of Hostile Mail at the Door....



- IronPort uses identity & reputation to apply policy
- Sophisticated response to sophisticated threats

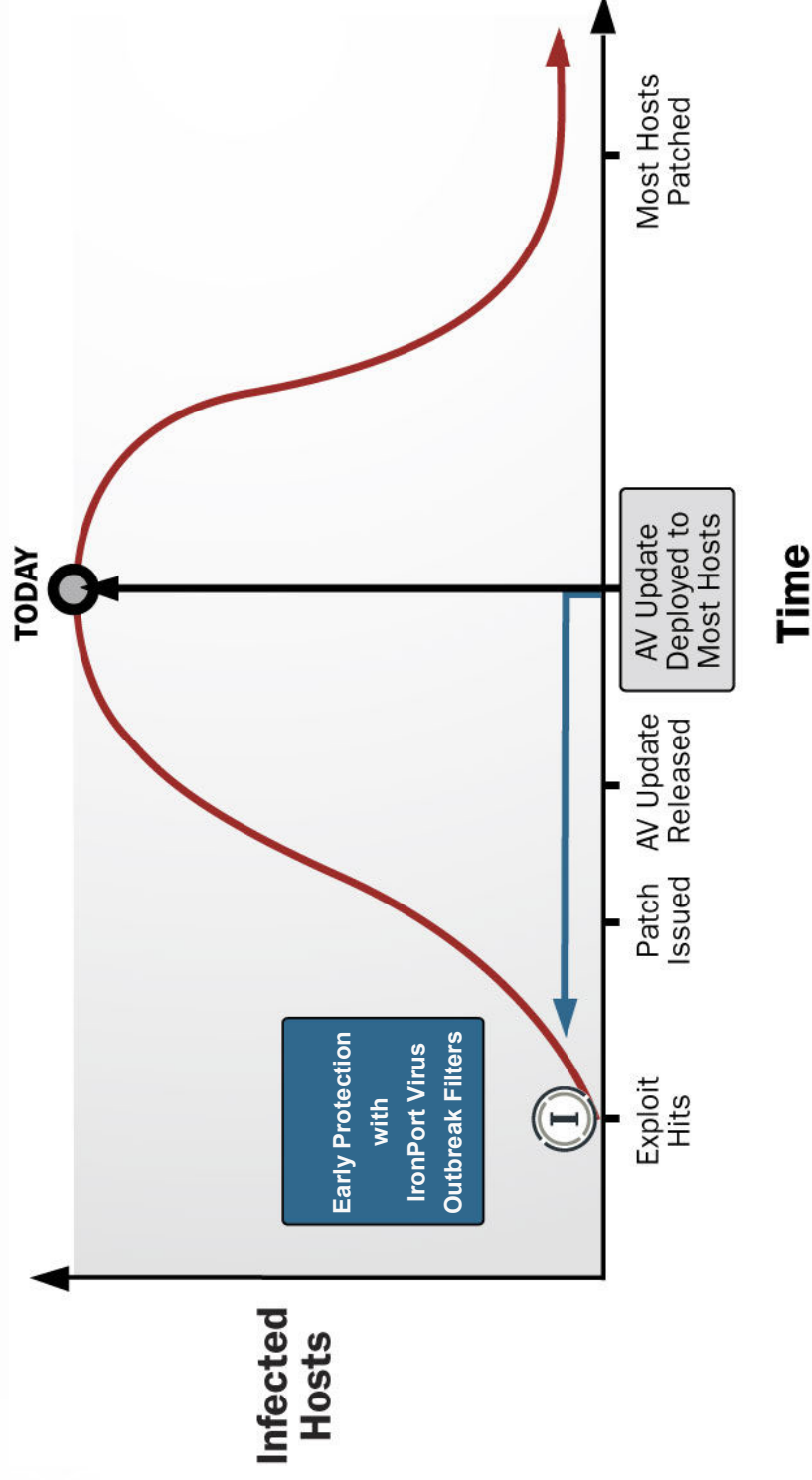
IronPort Anti-Spam™

Backed By The Industry's Most Advanced Infrastructure



IronPort Virus Outbreak Filters™

First Line of Defense



IronPort Virus Outbreak Filters Advantage

Virus Name	Date	Virus Description	Lead Time (hh:mm)
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.Virut!ldr	4/12/07	Spammed email that asks recipients to open attachments entitled "document.txt.exe" and "video.zip". Downloads spyware onto infected computers.	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 attached file that, when opened, installs spyware.	6:51
Troj_Agent.JAW	1/14/07	Spammed email message that contains a seemingly benign PDF attachment. Once attachment is opened, backdoor is installed for remote hackers to access the PC.	20:08

Average lead time*over 13 hours
Outbreaks blocked *175 outbreaks
Total incremental protection*over 94 days

*May 2006 – June 2007. 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 Email Security Manager™

Single view of policies for the entire organization

Incoming Mail Policies

Find Policies		Email Address:		<input checked="" type="radio"/> Recipient <input type="radio"/> Sender		Find Policies	
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

Categories: by Domain,
Username, or LDAP



- Allow all media files
- Quarantine executables

IT



- Mark and Deliver Spam

SALES

- Delete Executables



- Archive all mail

LEGAL

- Virus Outbreak Filters disabled for .doc files

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



IronPort M-Series

Centralized Reporting and Message Tracking

- Aggregated IronPort Email Security Monitor reports available on a central IronPort M-Series interface
- Helps administrators answer help desk calls quickly and easily

“Joe sent me an email, but I never received it.”

- Easier alternative to searching log files

Gives one place to search for messages across different appliances

Message Tracking

Search
No Tracking Data is currently available.
Data in time range: 55.6% complete

Envelope Sender: [?] Envelope Recipient: [?] Subject: [?]
Start Date: [?] and End Date: [?]
Time: [?] and Time: [?]

Sender IP Address: [?]
Message Event: [?]
Message ID Header: [?]
IronPort MID: [?]
IronPort Host: [?]

Search rejected on [?]
Selecting multiple event types:
 Virus Positive
 Spam Positive
 Suspect Spam
 Delivered

Envelope Recipient: [?] Envelope Sender or Sender IP: [?]
Contains: [?] Begins with: [?]
Start Date: [?] End Date: [?]
Time: [?] Time: [?]

Advanced Search messages using advanced criteria.

Message Tracking

Available Data: 05 Jun 2007 14:00 to 06 Jun 2007 14:12 (GMT -0700)
Generated: 05 Jun 2007 14:00 (GMT -0700)

Envelope Recipient: [?] Envelope Sender or Sender IP: [?]
Contains: [?] Begins with: [?]
Start Date: [?] End Date: [?]
Time: [?] Time: [?]

Advanced Search messages using advanced criteria.

Results

Displaying 1 - 4 of 4 items. Items per page: [10]

Item	Time	Sender	Recipient	Subject	Status
1	Thu Jul 22 2005 16:37 (GMT -0700)	normal_sender@2901.tacoma	normal_sender@ironport.com	(no subject)	Message successfully delivered
2	Thu Jul 22 2005 16:37 (GMT -0700)	normal_sender@2901.tacoma	normal_sender@ironport.com	(no subject)	Message successfully delivered
3	Thu Jul 22 2005 16:37 (GMT -0700)	normal_sender@2901.tacoma	normal_sender@ironport.com	(no subject)	Message successfully delivered
4	Thu Jul 22 2005 16:37 (GMT -0700)	normal_sender@2901.tacoma	normal_sender@ironport.com	(no subject)	Message successfully delivered

Message Details

Envelope and Header Summary
Received Time: 05 Jun 2007 14:00 (GMT -0700)
MID: 157660
Message Size: 905 Bytes
Subject: (no subject)
Sender: tacoll@acornterritory.com
Recipients: brightmail@t.qlt1.ca, brightmail@t.qlt1.ca
Message ID Header: 5068555f@020.02.clyon.ca
Receiving Host: ironport.ca
Receiving IP: 172.22.141.2
SMTP Auth User ID: N/A

Sending Host

Reverse DNS Hostname: ironport.ca (verified)
IP Address: 172.22.141.2
SMB Score: N/A

Processing Details

Sep 18, 2006 12:11:40 -0800	Message enqueued
Sep 18, 2006 12:11:40 -0800	Message processed by Anti-Spam. Verdict: Negative
Sep 18, 2006 12:11:40 -0800	Message processed by Sophos Anti-Virus. Verdict: Negative
Sep 18, 2006 12:11:40 -0800	Message queued for delivery
Sep 18, 2006 12:11:40 -0800	Message successfully delivered to brightmail@t.qlt1.ca
Sep 18, 2006 12:11:40 -0800	Message processed by Anti-Spam. Verdict: Negative
Sep 18, 2006 12:11:40 -0800	Message processed by Sophos Anti-Virus. Verdict: Negative
Sep 18, 2006 12:11:40 -0800	Message queued for delivery
Sep 18, 2006 12:11:40 -0800	Message successfully delivered to brightmail@t.qlt1.ca
Sep 18, 2006 12:11:40 -0800	MAIL POLICY "pas_drop" PROCESSING pas_drop@t.qlt1.ca
Sep 18, 2006 12:11:40 -0800	MAIL POLICY "pas_drop" PROCESSING pas_drop@t.qlt1.ca
Sep 18, 2006 12:11:40 -0800	Message processed by Anti-Spam. Verdict: Suspected spam

Results

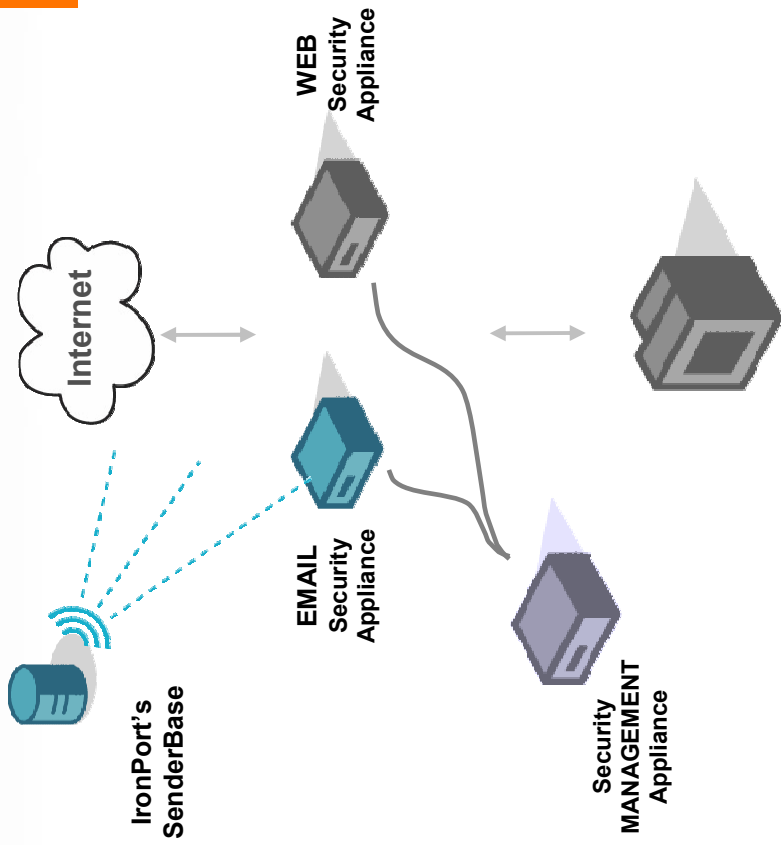
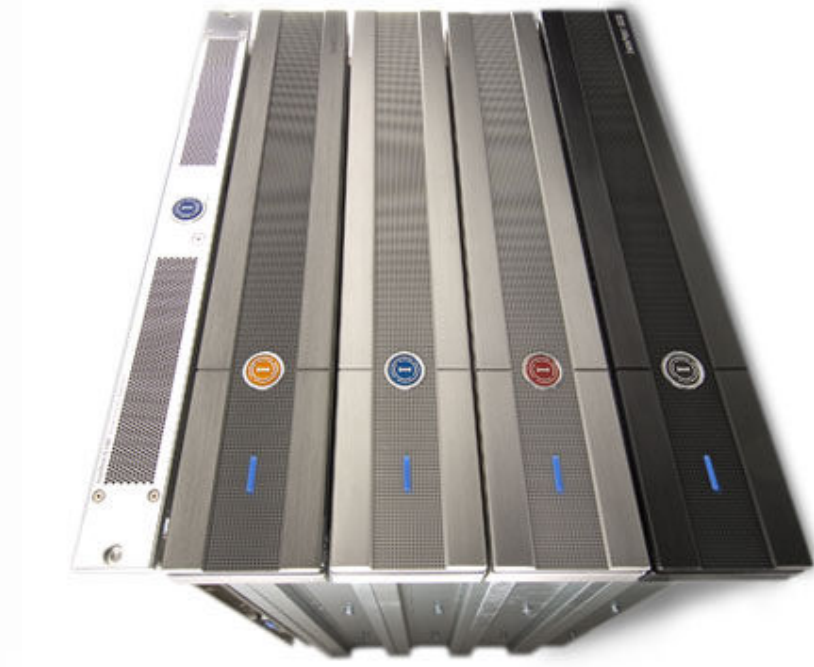
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Web Security Overview



IronPort® Perimeter Security Appliances



Web Security

Email Security

Security management



IronPort + Cisco

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Web Traffic: Clear & Present Risks

The Circle of Risk



Malware &
Acceptable Use Policy
(AUP) violations

35-40% of Web usage is
non-business related
(Source: IDC Research)

75%+ of enterprises are infected with
spyware & malware
(Source: IDC Research)



Web Traffic

The Long Tail Gets Longer

50% of traffic is "easy to classify"
Predictable traffic, recognized domains

50% of traffic is "hard to classify"
110M sites, growing 40% annually

Mixture of legitimate sites, spyware and malware

Big Head

Long Tail

of Sites



IronPort S-Series™

Next Generation Web Security Platform

- Layer 4 (L4) traffic monitor inspects all traffic
- Web reputation for preventive filtering
- Integrated complete content inspection
- Acceptable Use URL filtering for corporate policy enforcement



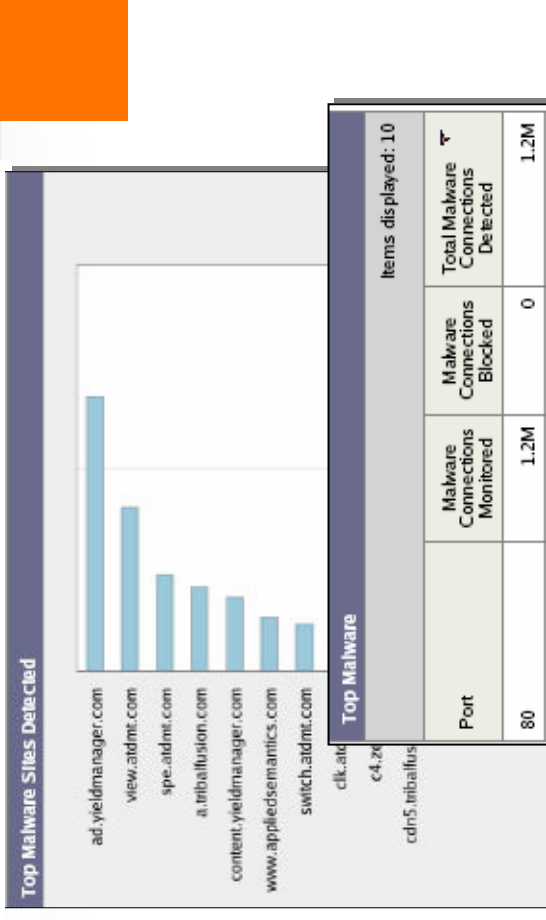
IronPort S650/S350
Web Security System



Detecting Existing Client Infections

Monitoring “Phone Home” Traffic

- Layer 4 Traffic Monitor
 - Scans all traffic, all ports, all protocols
 - Detects malware bypassing
 - Port 80
- Powerful anti-malware data
 - Automatically updated anti-malware rules
 - Real-time rule generation using “Dynamic Discovery”



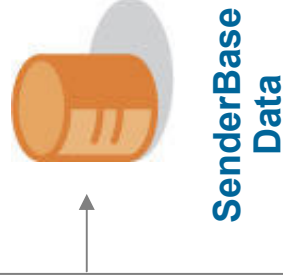
IronPort Web Reputation Filters™

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 REAL TIME

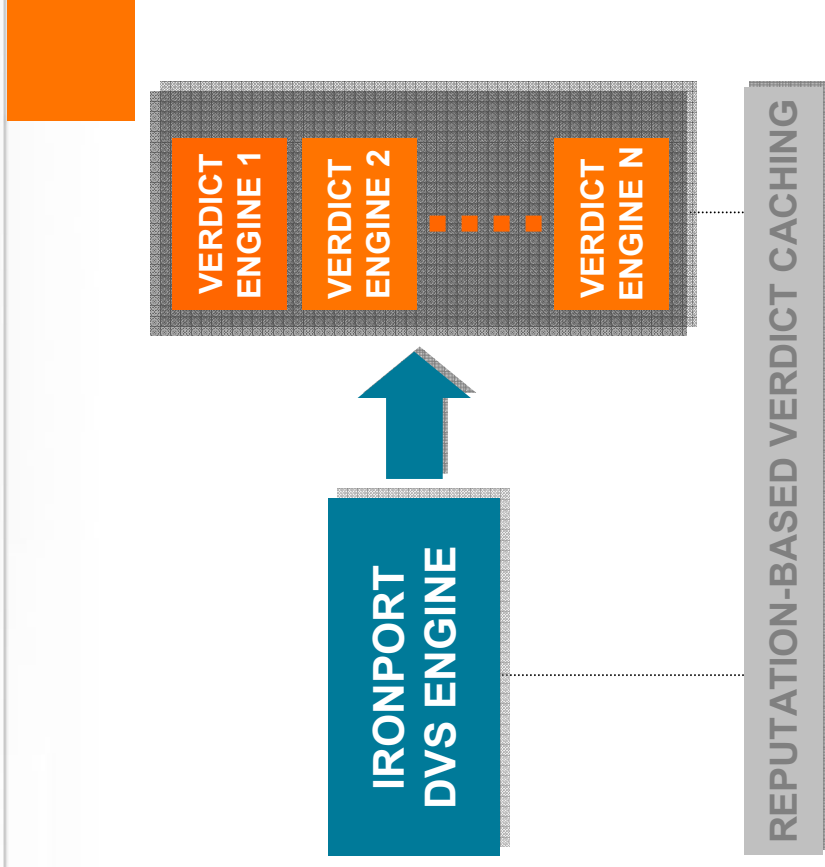


Web Reputation Scores (WBRs)
-10 to +10



IronPort Dynamic Vectoring and Streaming (DVS) Engine™

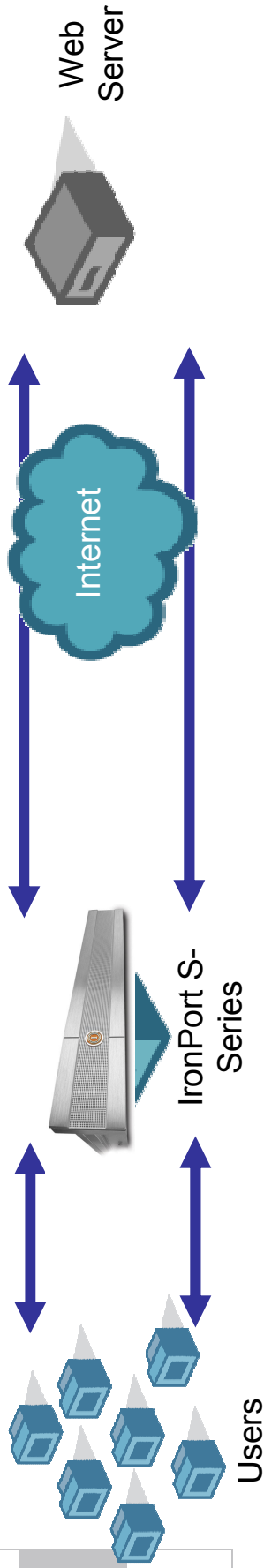
- High performance scanning
- Multiple verdict engine support
- Webroot
 - Large, accurate signature database
 - Automated threat research system (Phileas)
 - Backed by in-house Threat Research Team



HTTPS Scanning

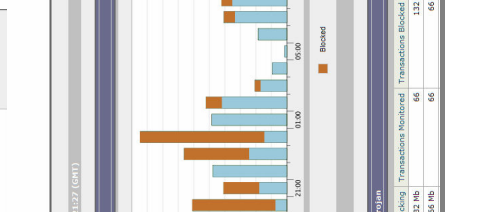
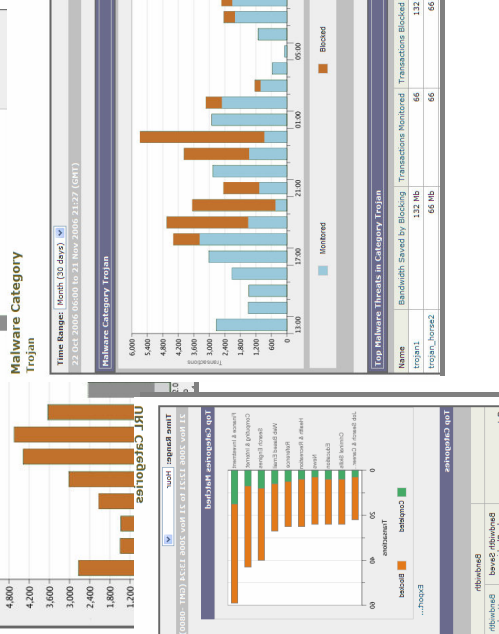
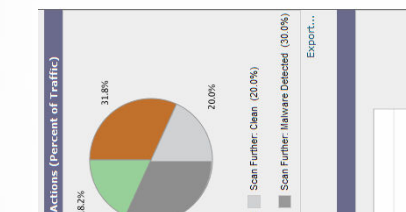
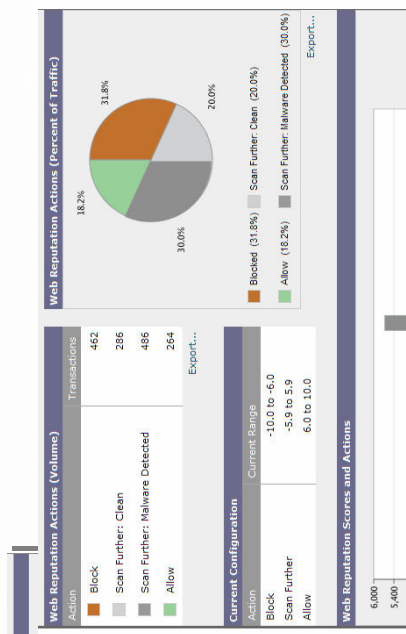
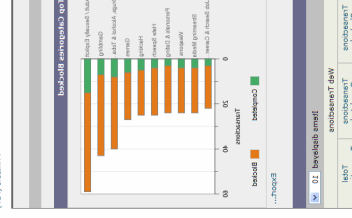
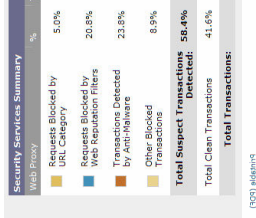
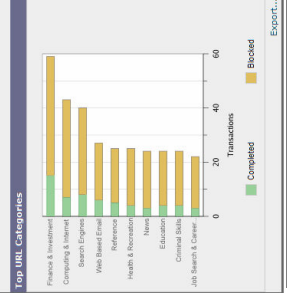
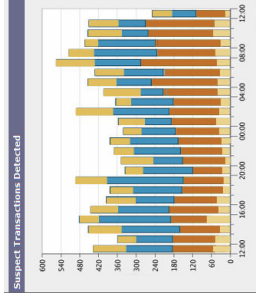
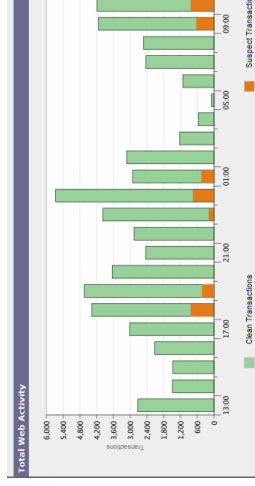
Selective, Based on Trust

Decrypted • Inspected • Re-encrypted
Selectively on **TRUST, Category, Source**



IronPort Web Security Monitor™

- System Overview
- Web Traffic Trends
- Site Activity
- Site Detail
- Client Activity
- Client Detail
- Category Detail
- Malware Details
- Malware Trends
- L4 Traffic Monitor
- Web Reputation



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