



## Jumping The Content Security Train



#### Continuing the lead in L7 security

**Hrvoje Dogan Systems Engineer, Eastern Europe and Russia** 

IronPort Systems – A Cisco Business Unit

## **Agenda**

- 1. About IronPort
- 2. Market Position And Products Overview
- 3. Why did Cisco do it?
- 4. What do we do?
- 5. What can we do together?

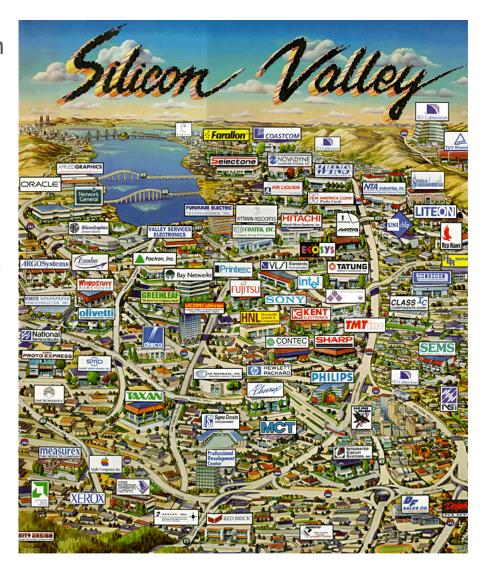


#### Who Is IronPort?

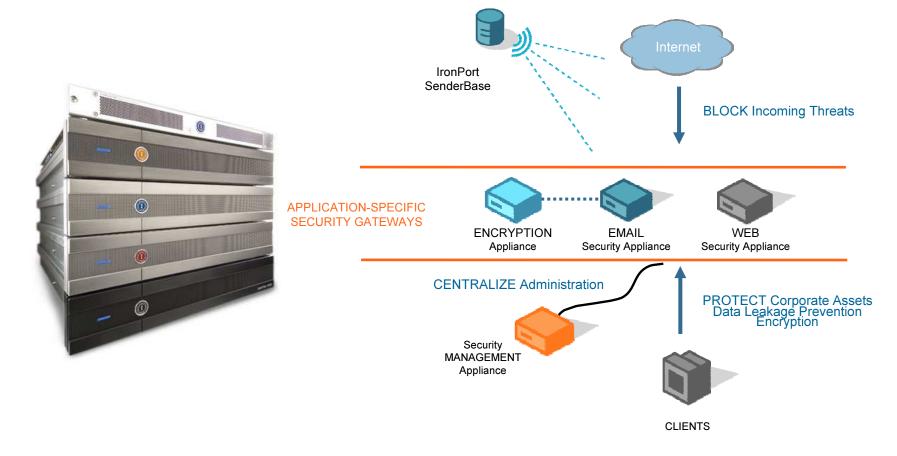
- Founded in 2000 by Email pioneers from Hotmail, ListBot and Yahoo
- idea: building the fastest and strongest gateway appliance
- based in USA, California, Silicon Valley
- Acquired by Cisco in June 2007
- Worldwide 800+ employees
- ~100 in Europe (UK, Germany, Sweden, France, Spain, Italy)
- revenue 2005: ~ 70m USD,

2006: ~115m USD

2007: ~200m USD



## **IronPort® Gateway Security Products**





### The IronPort SenderBase® Network

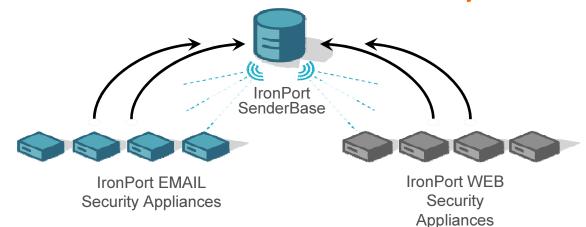
Global Reach Yields Benchmark Accuracy



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

#### Combines Email & Web Traffic Analysis

- View into both Email & Web traffic
- 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



#### IronPort + Cisco

#### Extending Market Leadership



#### 1. Customer Leadership

Over 6,000 customers globally

99% customer retention rate

#### Technology Leadership

Industry leading email and Web security applications and management tools

#### 3. Global Leadership

Worldwide operations and infrastructure

#### IronPort + Cisco

#### Extending Technology Leadership

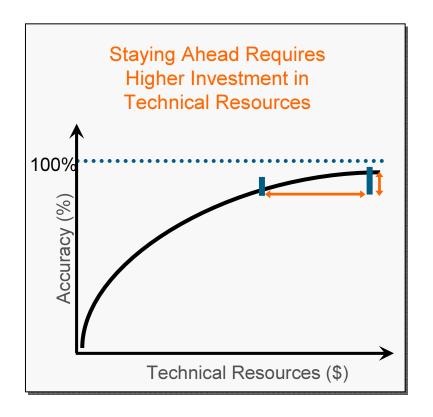
- Substantial growth in bookings Market growth rate = 50% IronPort growth rate = 100%
- Significant investment in security technology

R&D resources increased by 35% in 2007

Employee base increased by 50%

3. Unparalleled access to data

> Cisco network devices contribute to IronPort's SenderBase data





## Gartner Magic Quadrant

for Email Security Boundaries, 2008\*

#### Analysis of IronPort Email Security:

- Cisco/IronPort is the market share leader with strong growth rates.
- Spam detection rates for IronPort are excellent, with very low false-positive rates.
- SenderBase has expanded to include Web URL reputation. The local connection management policy is very granular.
- Email encryption (via the Cisco/PostX envelope functionality) is provided in the email security appliance.
- Scalability and stability are prime differentiators. IronPort has a large percentage of very large enterprise customers.



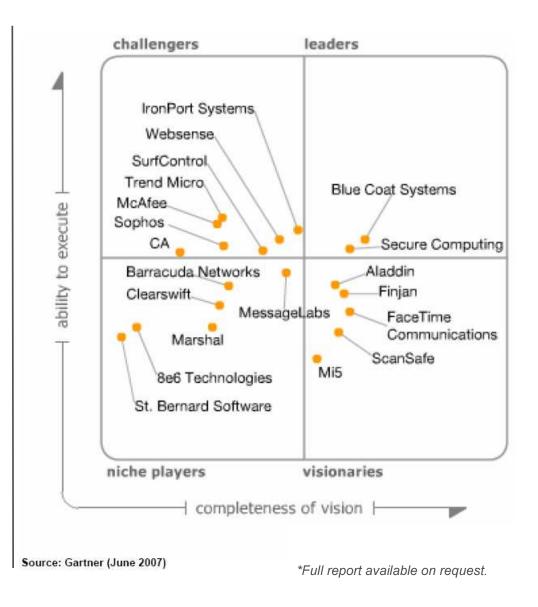
\*Full report available on request.

## Gartner Magic Quadrant

for Secure Web Gateway, 2007\*

#### Analysis of IronPort Web Security:

- Email security experience has helped design the IronPort S-Series<sup>™</sup> for complex enterprise environments.
- Solution provides anti-spyware scanning supplemented with anti-spyware scanning and URL filtering
- URL categorization engine is augmented with data from IronPort's SenderBase® reputation service.
- Malware protection is enhanced with an outbound Layer 4 traffic monitor
- IronPort is expected to be a leader in 2008 and potent threat as the product and installed base matures, and the company can take advantage of the reach of Cisco's sales force.

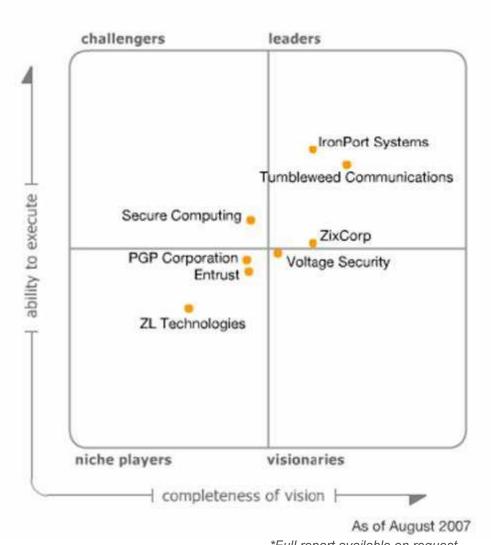


## Gartner Magic Quadrant

for Email Encryption, 2007\*

#### Analysis of IronPort Email **Encryption:**

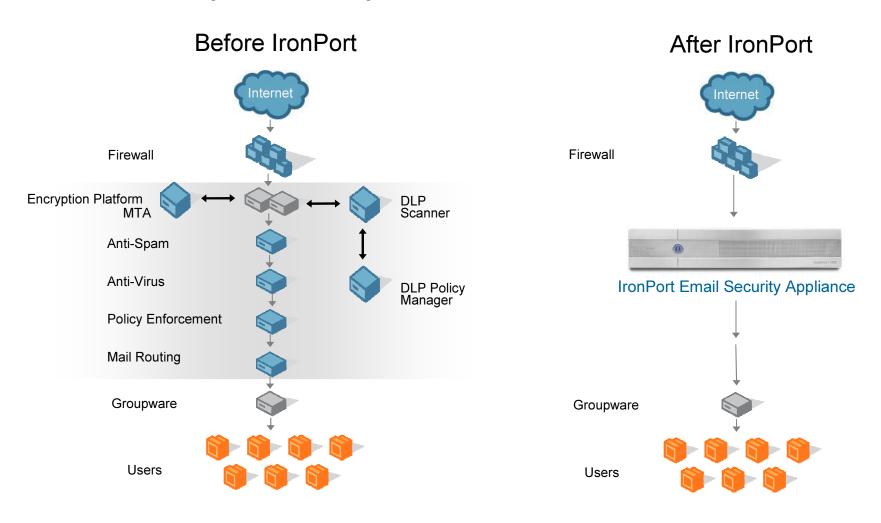
- Universal Reach: send to any email user
- Usability: No desktop software, no certificates
- Simple Deployment and Management Integrated into IronPort C-Series™ Supporting infrastructure provided by Ciscomanaged service
- Auditable Policy Enforcement
- Combined IronPort/PostX organization provides email security and encryption capabilities



\*Full report available on request.

## IronPort Consolidates the Network Perimeter

For Security, Reliability and Lower Maintenance



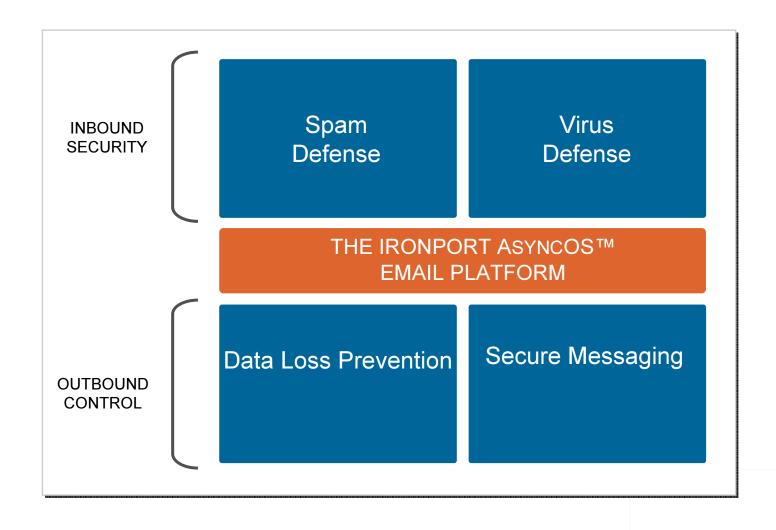
## IronPort Consolidates the Network Perimeter

For Security, Reliability and Lower Maintenance

Before IronPort After IronPort Internet Internet Firewall Firewall Web Proxy & Caching Anti-Spyware Anti-Virus IronPort Web Security Appliance Anti-Phishing **URL Filtering** Policy Management Users Users

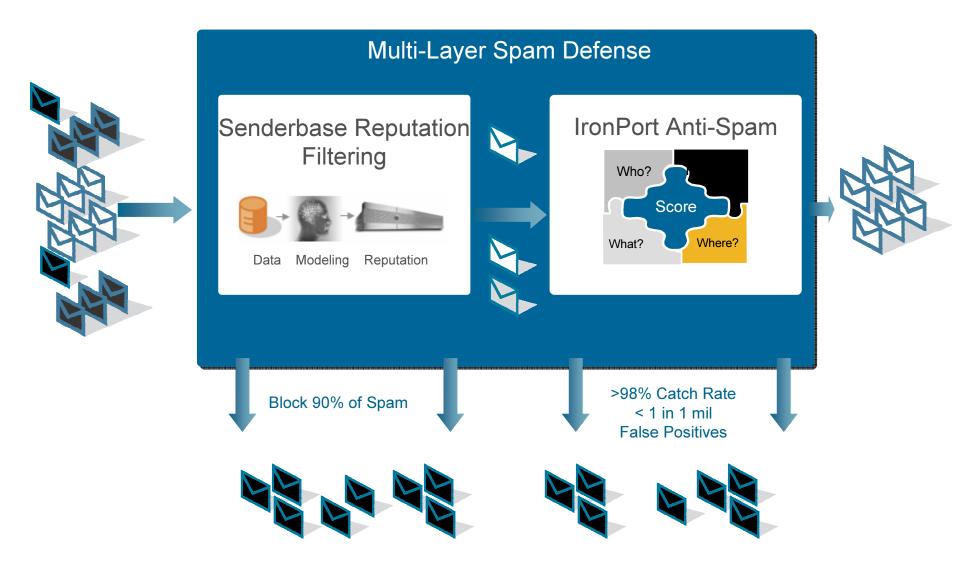
## **IronPort E-Mail Security Architecture**

Inbound Security, Outbound Control



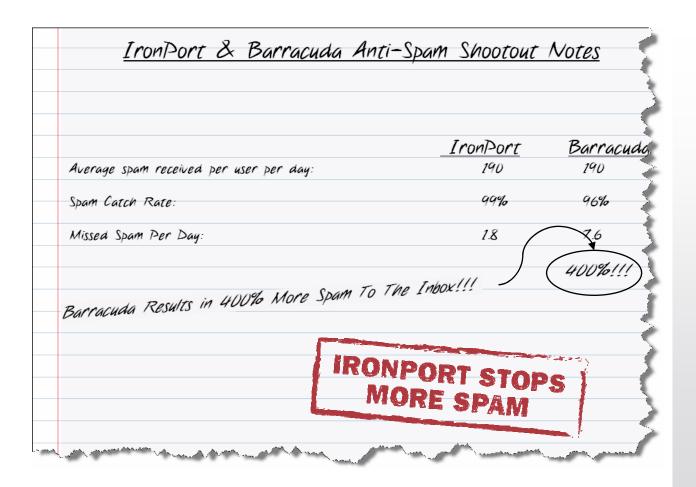
## **Stop More Spam**

IronPort Spam Defense



## **IronPort Spam Defense** *Thompson Machinery Case Study*





## **Thompson**

"I simply plugged it in, set it up and walked away. No more spam problems! The ROI on this product is a nobrainer."

David JonesIT Administrator

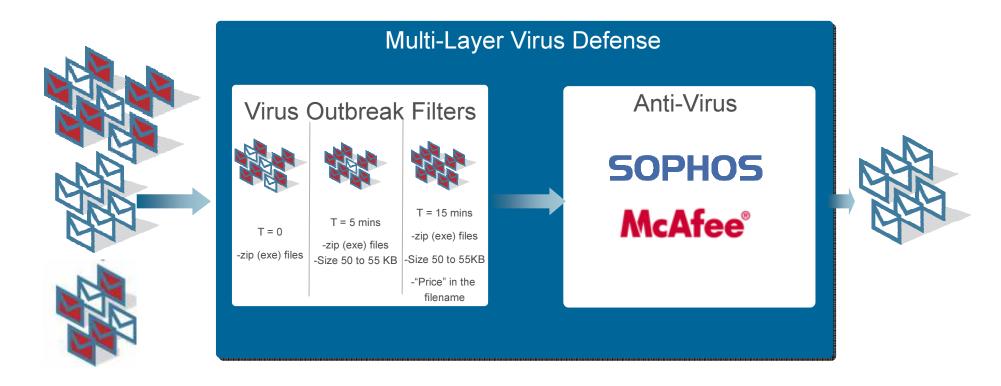
**Thompson Machinery** 

MAILBOXES PROTECTED

500+

## **Stop More Viruses**

#### IronPort Virus Defense



#### Virus Outbreak Filters Advantage

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

### IronPort's Virus Defense eWeek Review Case Study



Assumes \$500 Per Desk Top Clean Up & 1/3 Open Rate of Viral Messages



#### Review

- <u>5</u> month test by eWEEK
- 1217 virus positive emails stopped before AV signatures were available
- 48 separate virus variants
- 0 false positives reported

"We never saw a false positive.

Virus Outbreak Filters

effectively blocked messages

containing viruses for which
signatures didn't already exist."

- - Mike Caton, Technical Writer

#### **Data Loss Prevention**

#### Multi-Faceted Problem

#### 1. Regulatory Compliance

PCI, HIPAA, GLB, SOX Regulations

Scan for sensitive information and block infractions

Secure business partner communication



#### 2. Acceptable Use

Block offensive content

Enforce messaging policy (attachment size, etc)

Add legal disclaimers to outgoing mails



#### 3. Intellectual Property Protection

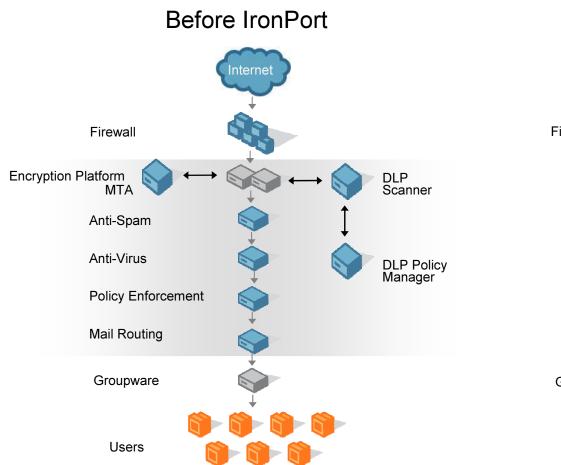
Block messages containing confidential data

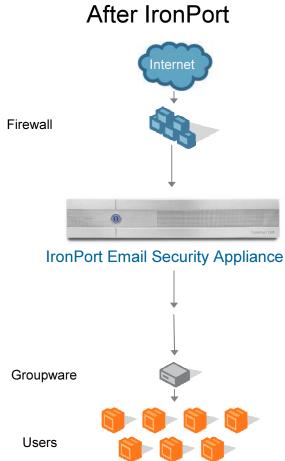
Prevent email communications with competitor



## Data Loss Prevention Deployment

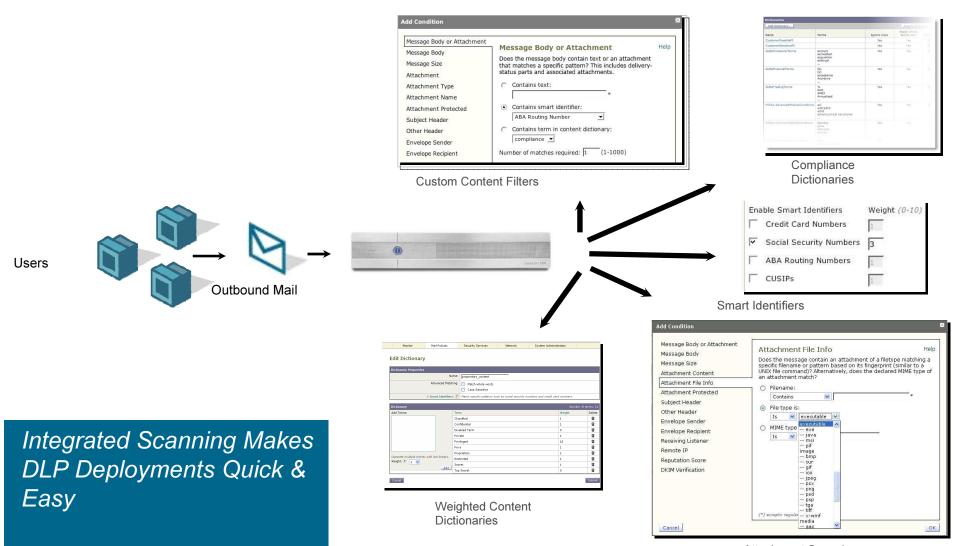
IronPort Reduces Complexity





#### **Data Loss Prevention Foundation**

Integrated Scanning

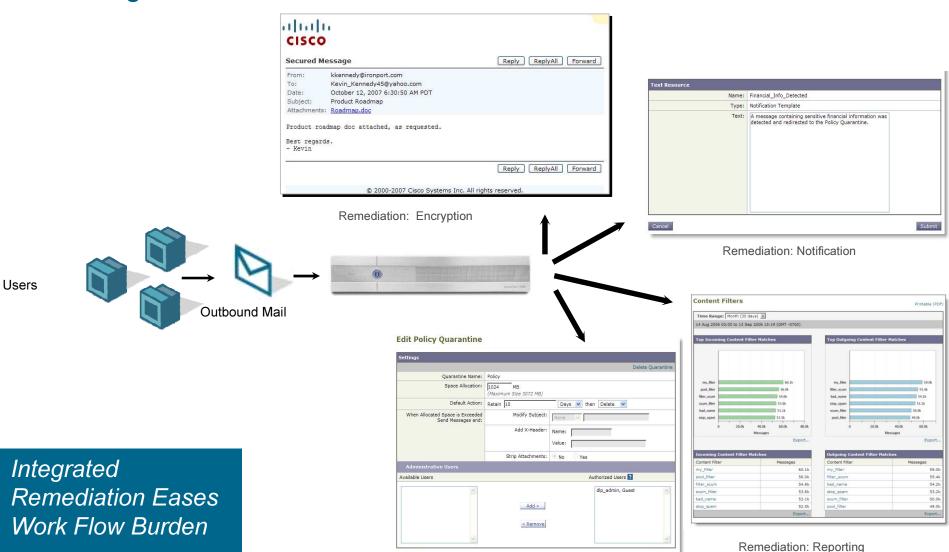


**Attachment Scanning** 

#### **Data Loss Prevention Foundation**

Cancel

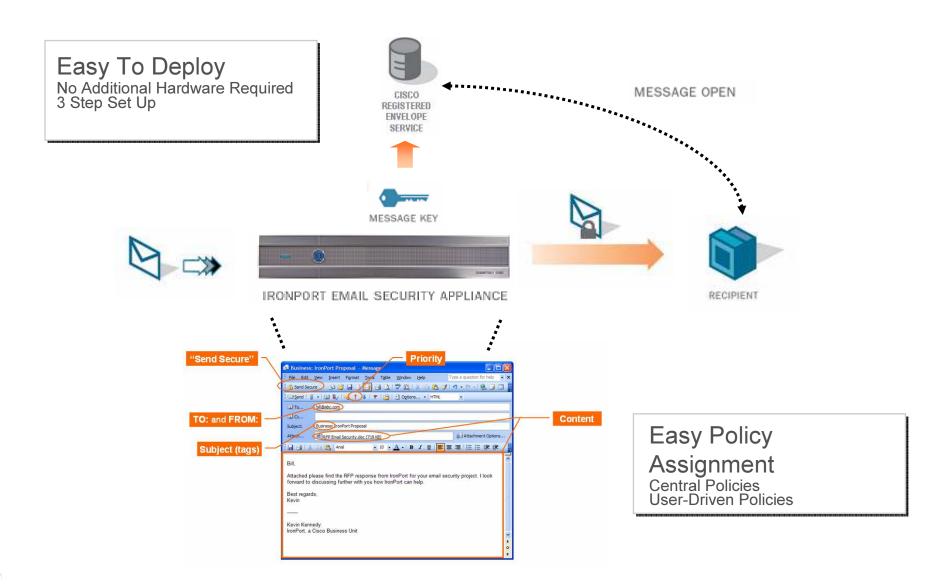
Integrated Remediation



Remediation: Quarantine

## **Secure Messaging**

#### Email Encryption That's Easy For Senders



## **Secure Messaging**

#### Email Encryption That's Easy For Receivers

#### 1. Open Attachment





#### 2. Enter password

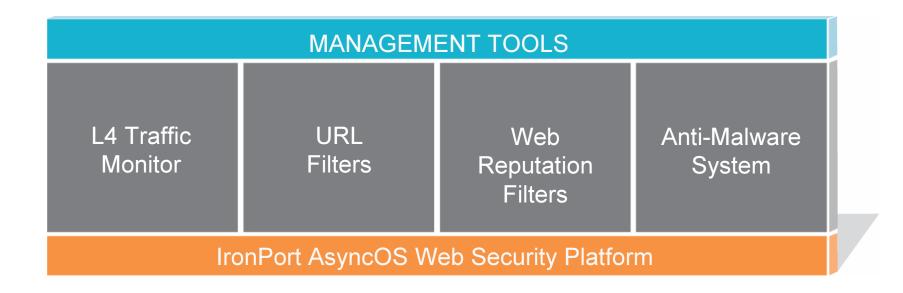


#### 3. View message



## IronPort Web Security Architecture

The Next Generation Secure Web Gateway





## **Detecting Existing Client Infections**

### Monitoring "Phone Home" Traffic

#### 1. Layer 4 Traffic Monitor

Scans all traffic, all ports, all protocols

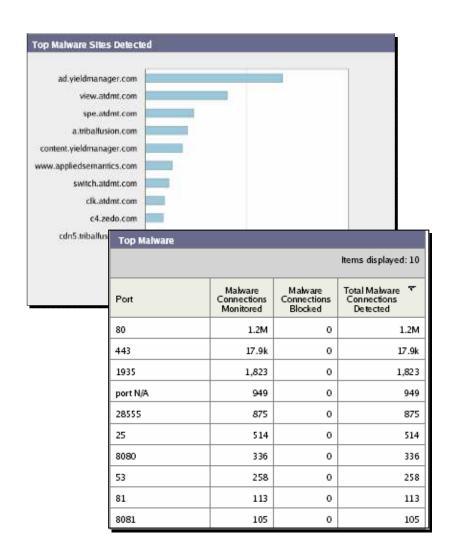
Detects malware bypassing

Port 80

#### 2. Powerful anti-malware data

Automatically updated anti-malware rules

Real-time rule generation using "Dynamic Discovery"



## IronPort Web Security Aurora Health Care Case Study



#### 1. Aurora Health Care's challenge:

13 Hospitals, 100 clinics, over 30,000 users
Significant malware infections
Large infrastructure, ~7 servers running Websense

#### 2. IronPort's solution:

Blocked ~2 million additional suspect transactions per week (downloads.hotbar.com, zedo.com)

Spyware filtering accuracy increased by 3x

Replaced **7** servers with **2** IronPort S-Series<sup>™</sup> appliances

Servers consolidated by 70%



"... we have been very concerned about the level of malware infections in our network.

The fact that the IronPort
S-Series enables us to
stop malware at the
network edge, while also
allowing us to deploy URL
filtering policies, is a big
advantage for us."

— Tim Sommers
AURORA HEALTH CARE

USERS PROTECTED

30,000+

#### IronPort URL Filters

#### Leading Accuracy and Control

Enterprise-class database

52 categories, over 21 million sites, ~3.5 billion webpages

1/3 of the database is international

- 24 x 7 monitoring
- Regular, automated updates

Categories	
Advertisements & Pop-ups	
Arts	
Blogs & Forums	
Business	

Chat	Categories	
Computing & Inte	Infrastructure	
Downloads	Intimate Apparel & Swimwear	
Education	Job Search & Career Development	
Entertainment	Kids Sites	
Fashion & Beauty	Motor Vehicles	
Finance & Invest	News	
Food & Dining	Peer-to-Peer	
	Personals & Dating	
Games	Philanthropic & Professional Orgs.	
Government	Photo Searches	
Health & Medicin	1	
Hobbies & Recrea		
Hosting Sites	Real Estate	
	Reference	
l l		

#### IronPort URL Filters

#### Comprehensive Management & Visibility

## 1. Flexible policy management

Per user, per group policies

Multiple actions, including monitor only

**Custom notifications** 

#### 2. Visibility

Easy to understand reports

**Extensive logging** 

Comprehensive alerting



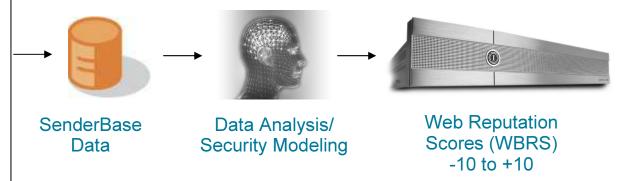
## IronPort Web Reputation Filters

#### 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...)
- Website History

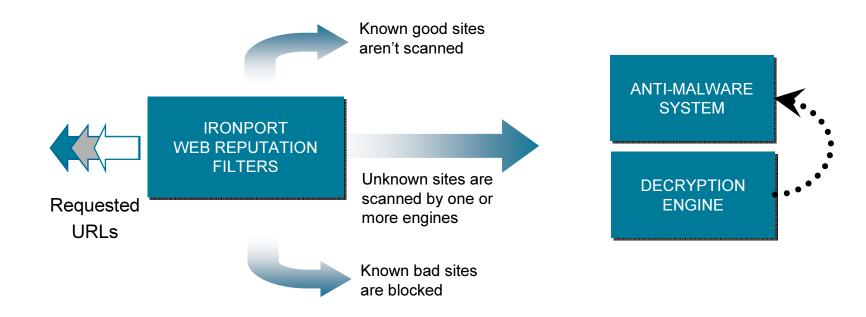
#### THREAT PREVENTION IN REALTIME



Addresses Known and Unknown Sites



## **Intelligent Scanning**



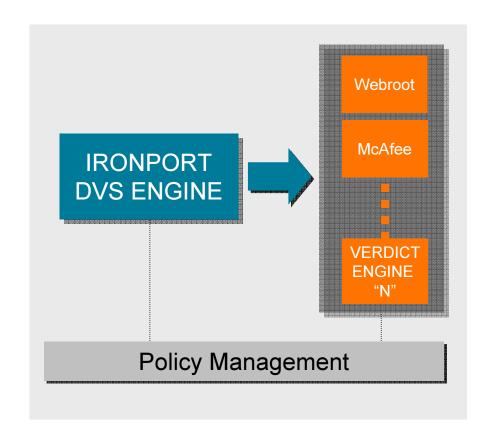
- IronPort Web Reputation technology determines need for scanning by
  - IronPort Anti-Malware System™
  - Decryption Engine



## IronPort DVS Engine

#### Multi-Layered Malware Defense

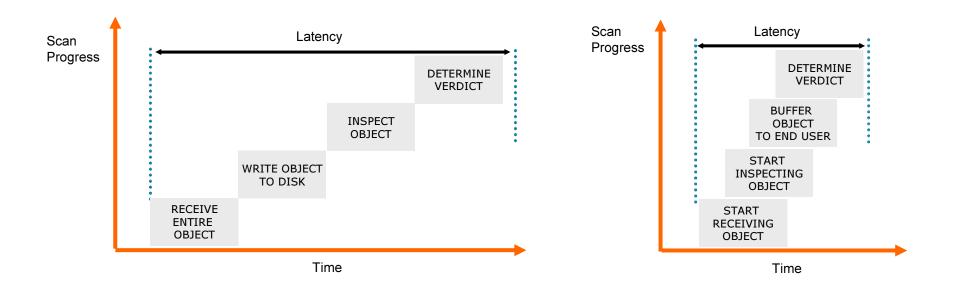
- Deep content inspection
- High-performance scanning
  - Parallel scans
  - Stream scanning
- Multiple verdict engines
  - Integrated, on-box
  - Supported engines: Webroot, McAfee
- 4. Automated Updates





## **Industry Leading Performance**

#### Stream Scanning



- 1. Accurately identifies "safe" objects for stream scanning
- 2. Processes objects in parallel to minimize latency



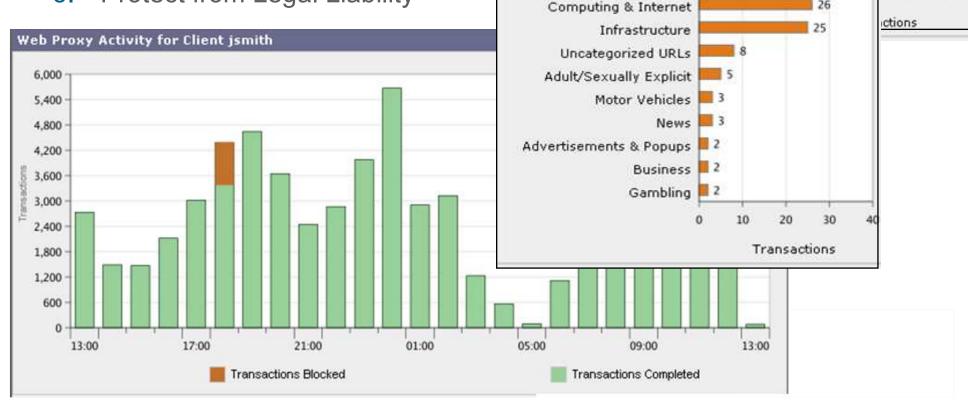
#### **Enforcing Acceptable Use** Customer Use Case

Flexible acceptable use policies, with with easy-to-understand reporting

Track Work Force Productivity

Reduce Resource Consumption

Protect from Legal Liability



Top URL Categories - Completed

Web-based E-mail

Advertisements & Popups 287

Top URL Categories - Blocked

Search Engines

no category

IronPort 506

Business 503 News

302

Infrastructure

5,999

6,000 8,000

2,310

1,507



95% of companies who try an IronPort appliance become customers.

Sales Contact: Mirko Schneider Territory Manager

mschneider@ironport.com







Thank You!



**Hrvoje Dogan Systems Engineer, Eastern Europe and Russia** 

IronPort Systems – A Cisco Business Unit hdogan@ironport.com

# 

