



**Cisco Expo
2007**

Security Update



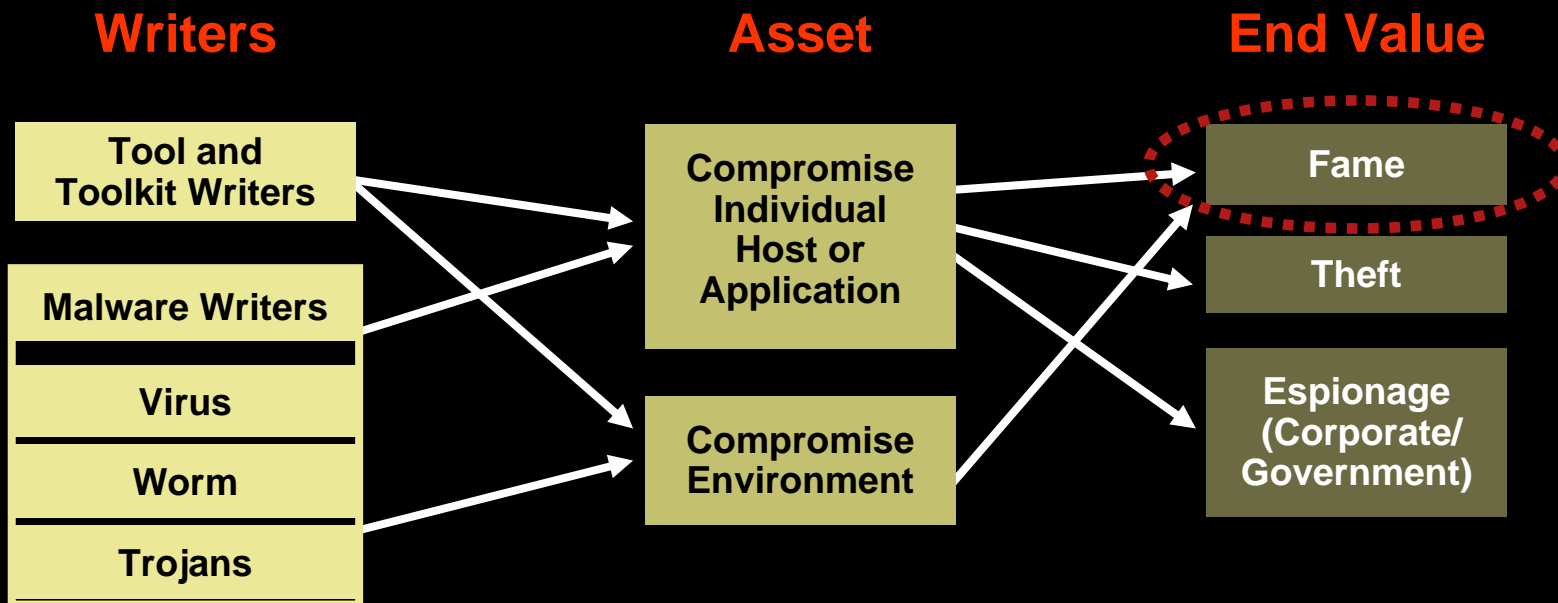
**Philippe Roggeband – Emerging Markets
Security Product Manager**

**Enable Your Network
Empower Your Business**

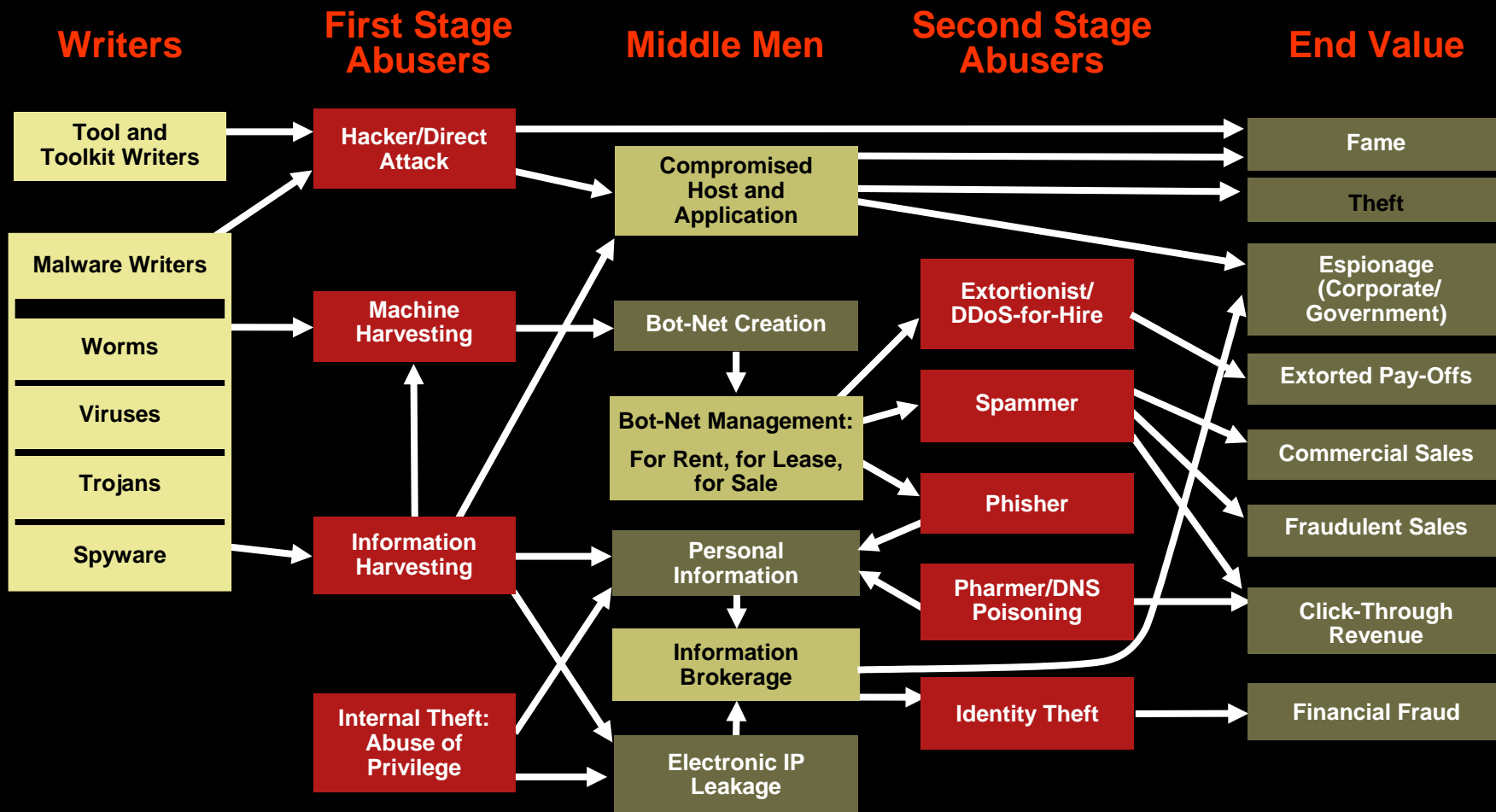
Agenda

- The threat context
- Cisco's Self-Defending Network approach
- Product Update
- Q&A

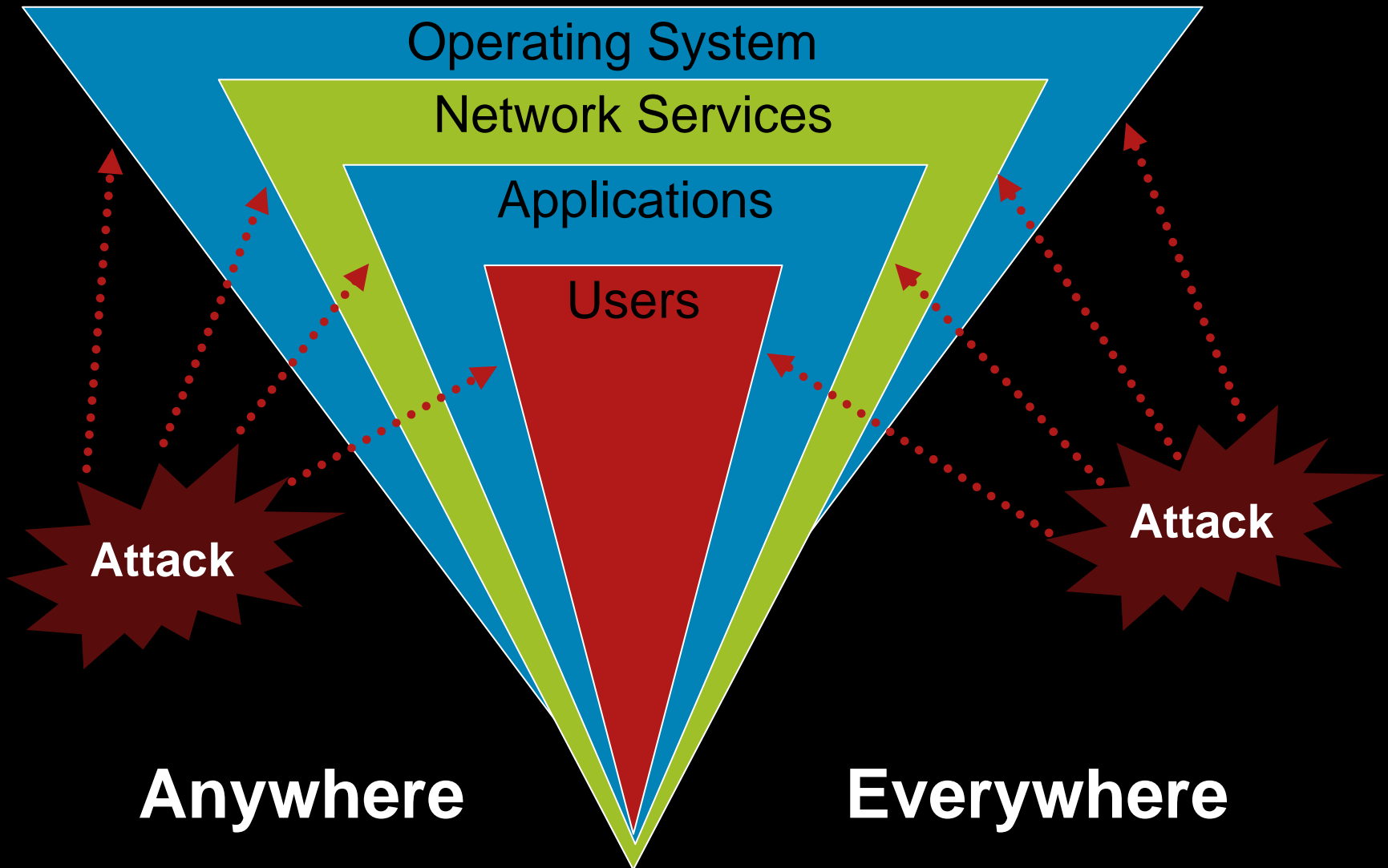
Threat Economy: In the Past



Threat Economy: Today



Where Can I Get Attacked?



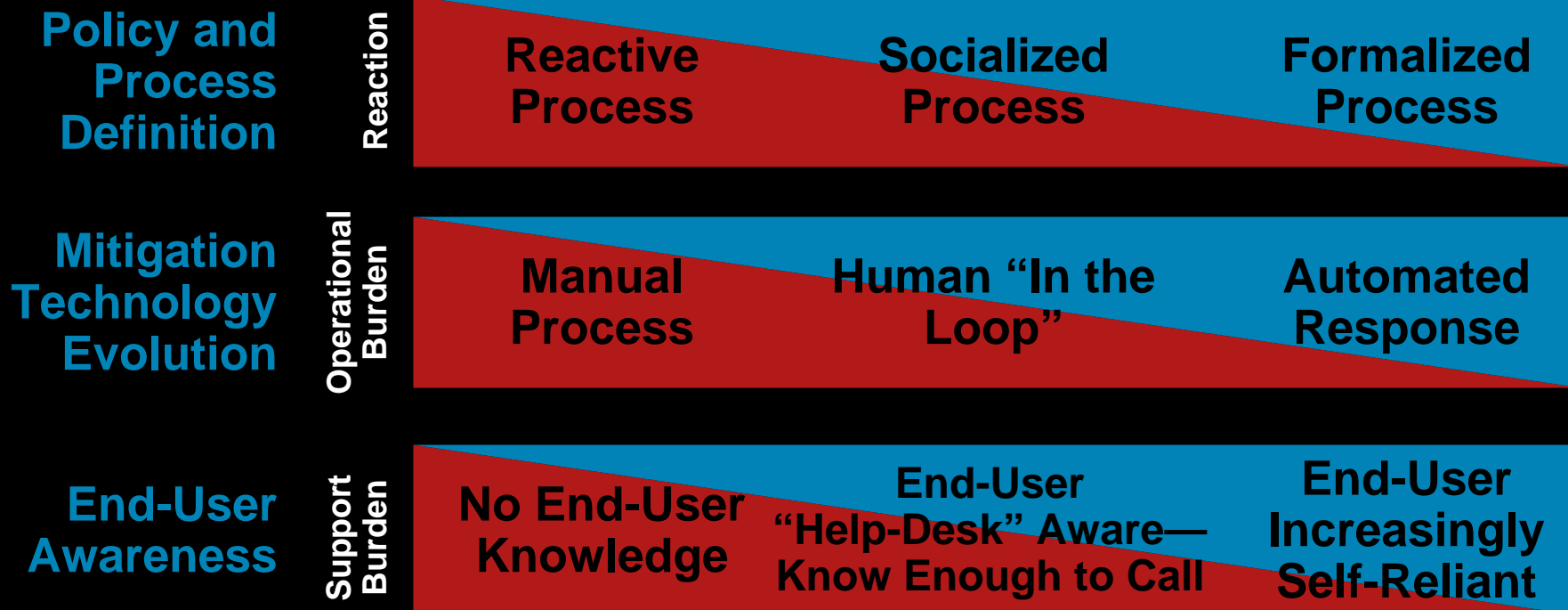
Operational Evolution of Threats

Threat Evolution

Emerging Threat
Unresolved Threat



Nuisance Threat



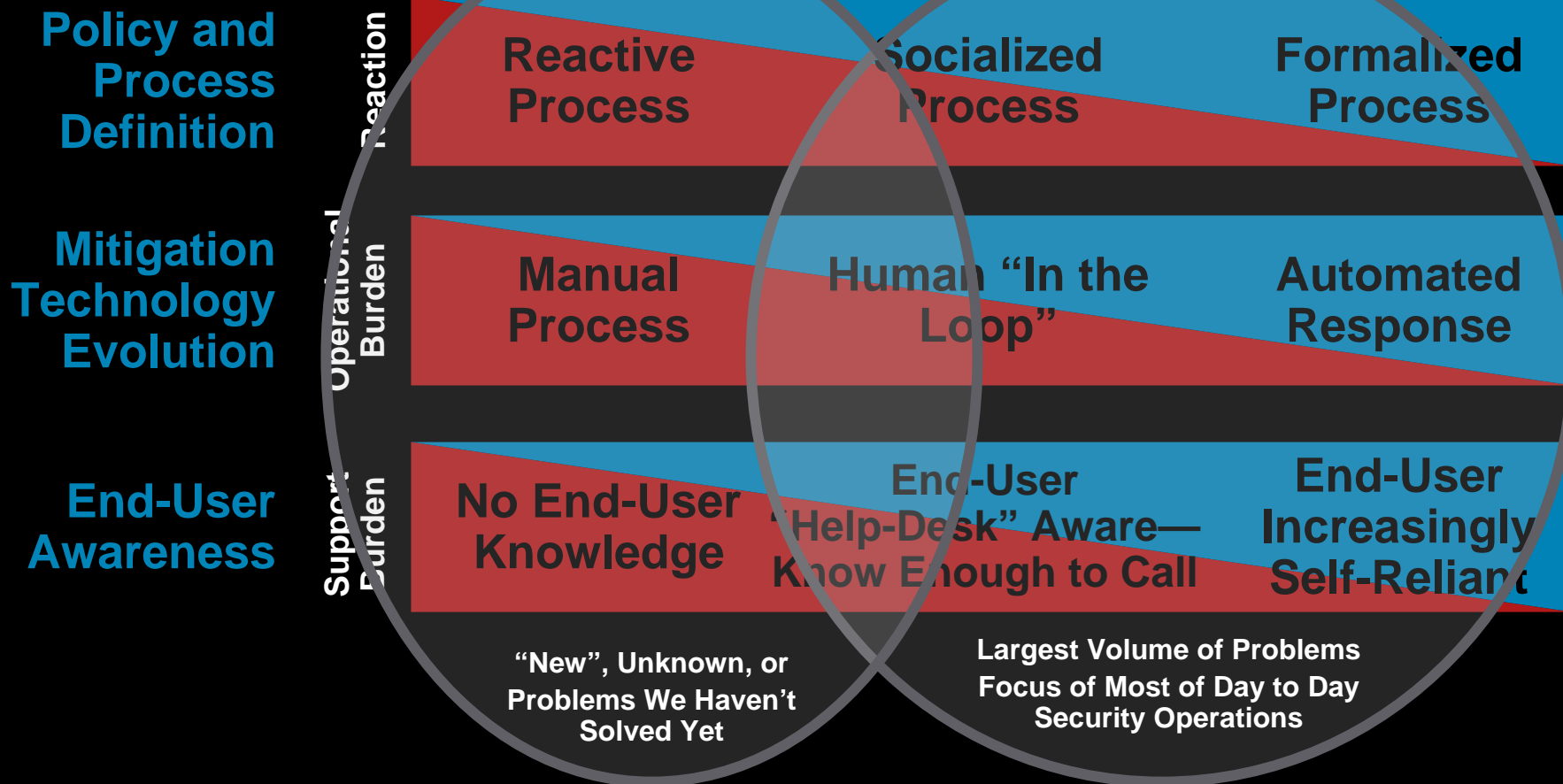
Operational Evolution of Threats

Threat Evolution

Emerging Threat
Unresolved Threat



Nuisance Threat



Cisco's Self-defending Network



Self-Defending Networks

Cisco's Security Strategy



Integrated

Enabling every element to be a point of defense and policy enforcement



Adaptive

Proactive security technologies that automatically prevent threats



Collaborative

Collaboration among the services and devices throughout the network to thwart attacks

Systems Approach Required



Complex

Impaired Usability

Gaps & Inconsistencies

High Cost



Effectiveness



Efficiency



Expense



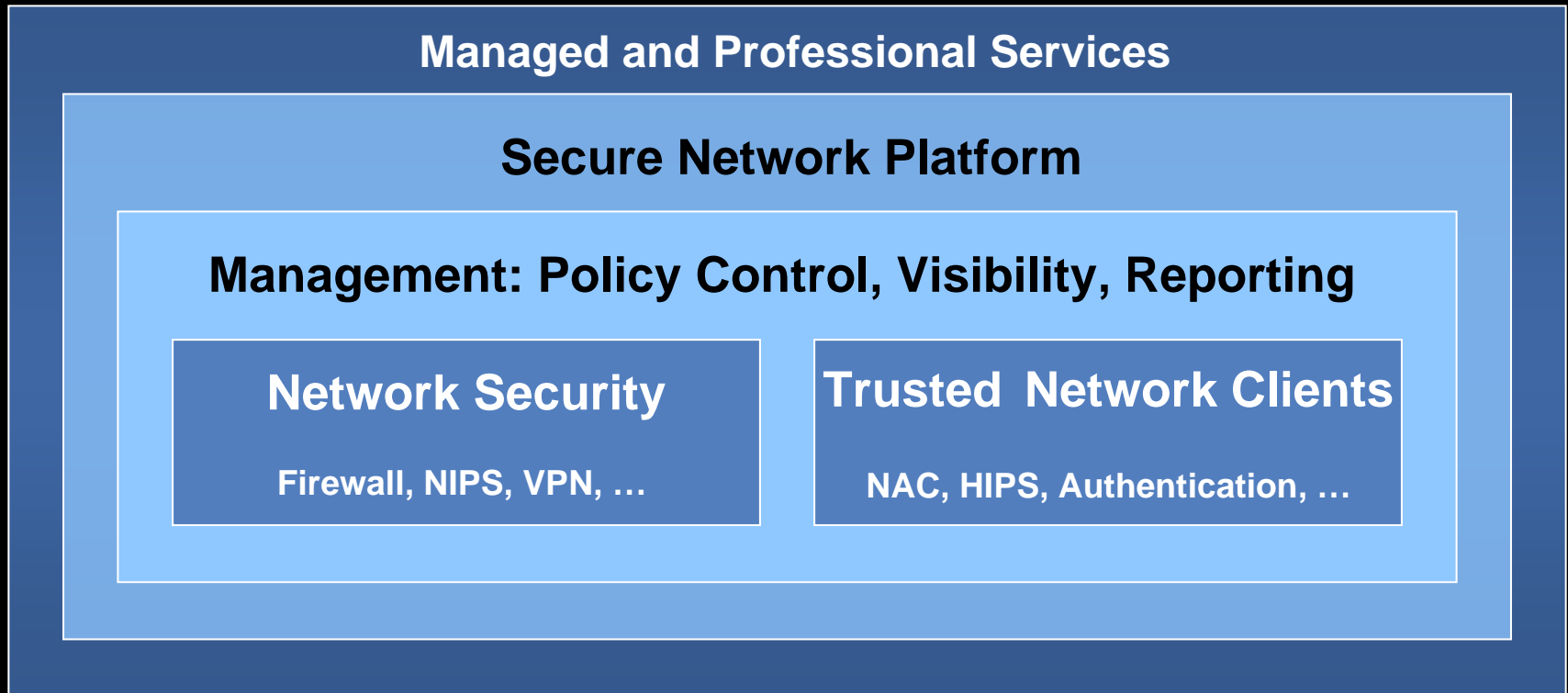
Simple

Easy to Use

Tightly Integrated

Lower TCO

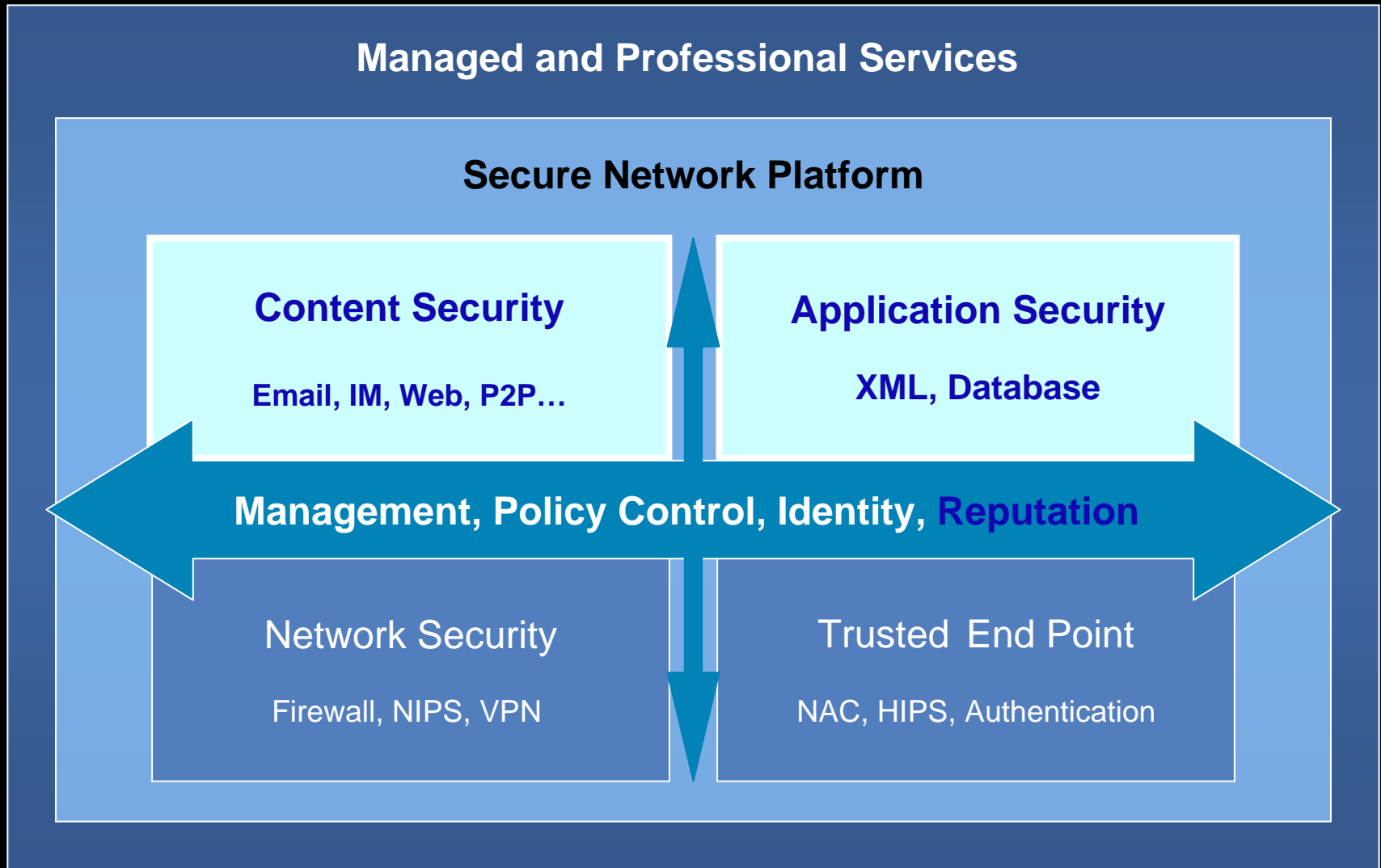
To Date: Self Defending Networks



- Since introduction in 2003, Cisco has reached a 38% market share of a \$5B available market.
- Established leadership in HW/SW NAC, VPN, Firewall, and IPS Markets
- Proof point for the value of Collaborative and End-to-End network based solutions

Self Defending Networks 3.0

Framework for Deeper and Wider Security Solutions



Security Product Update



What happened since the last Expo ?

- Threat Control & Containment Launch
- Ironport Acquisition
- Empowered Branch 3.0 Launch

Threat Control & Containment

360° Visibility and Protection

Delivering Comprehensive and Proactive Network Defense

Simplified Control

Streamlining Policy and Threat Management Across the Network

Business Resiliency

Ensuring the Enterprise's Operations



Launch Highlights

Threat Visibility

Infrastructure-wide Threat Intelligence and Threat Correlation, and Collaboration Across Systems and Endpoints

IPS 6.0

Proactive Protection and Resource Access

Real-Time Threat Prevention and Mitigation, Enhanced Admission Control

CS-Manager 3.1

SSL VPN Advancements

To Decrease TCO, Streamline Management, and Control User Resource Access on the Flagship Cisco ASA 5500 SSL/IPSec VPN Edition

ASA 8.0

Reduced Time to Respond

Enhanced Threat Visibility: Reporting and Correlation, Simplifying Threat Detection and Risk Analysis

CSA 5.2

Innovations in Intrusion Prevention

Enhancements in IPS 6.0

- **Integrated**

- Multivector protections across the product portfolio in the network, desktop, and server endpoints

- Visibility into endpoint context through passive OS fingerprinting

- Static OS mapping to include environment specific OS assignments

- Database protection

- Insight into user and endpoint credentials

- **Collaborative**

- Increased contextual analysis of endpoint

- Ability to use CSA inputs to influence IPS actions

- **Adaptive**

- Day zero anomaly detection

- Dynamic risk rating adjustment based on attack relevance

- Automated event and action filtering based on OS match

- **Hardware platforms: All IPS4200 Sensors, ASA5500 Series AIP modules, Cisco Access Router NM-CIDS modules, and Cisco Catalyst® IDSM-2 modules**

CSA 5.2 Highlights

Collaborative Security Enhances Threat Control

CSA Establishes Endpoint-Network Relationship
Which Enhances Total Network Security

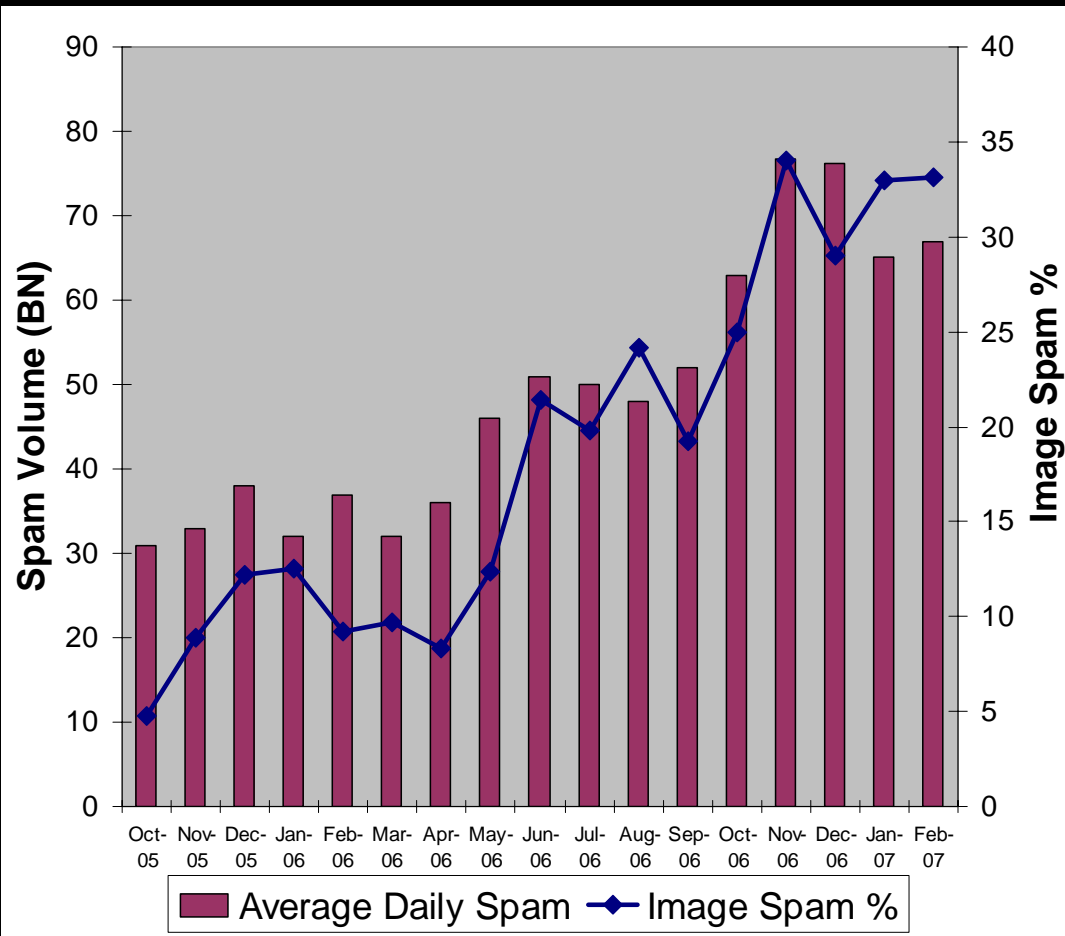
- Application- and user-based QoS tagging
- QoS and wireless policy controls provide Wi-Fi optimization and security
- Data protection capabilities provide flexible policy control
- CSA and IPS: Real-time information sharing providing improved signature fidelity

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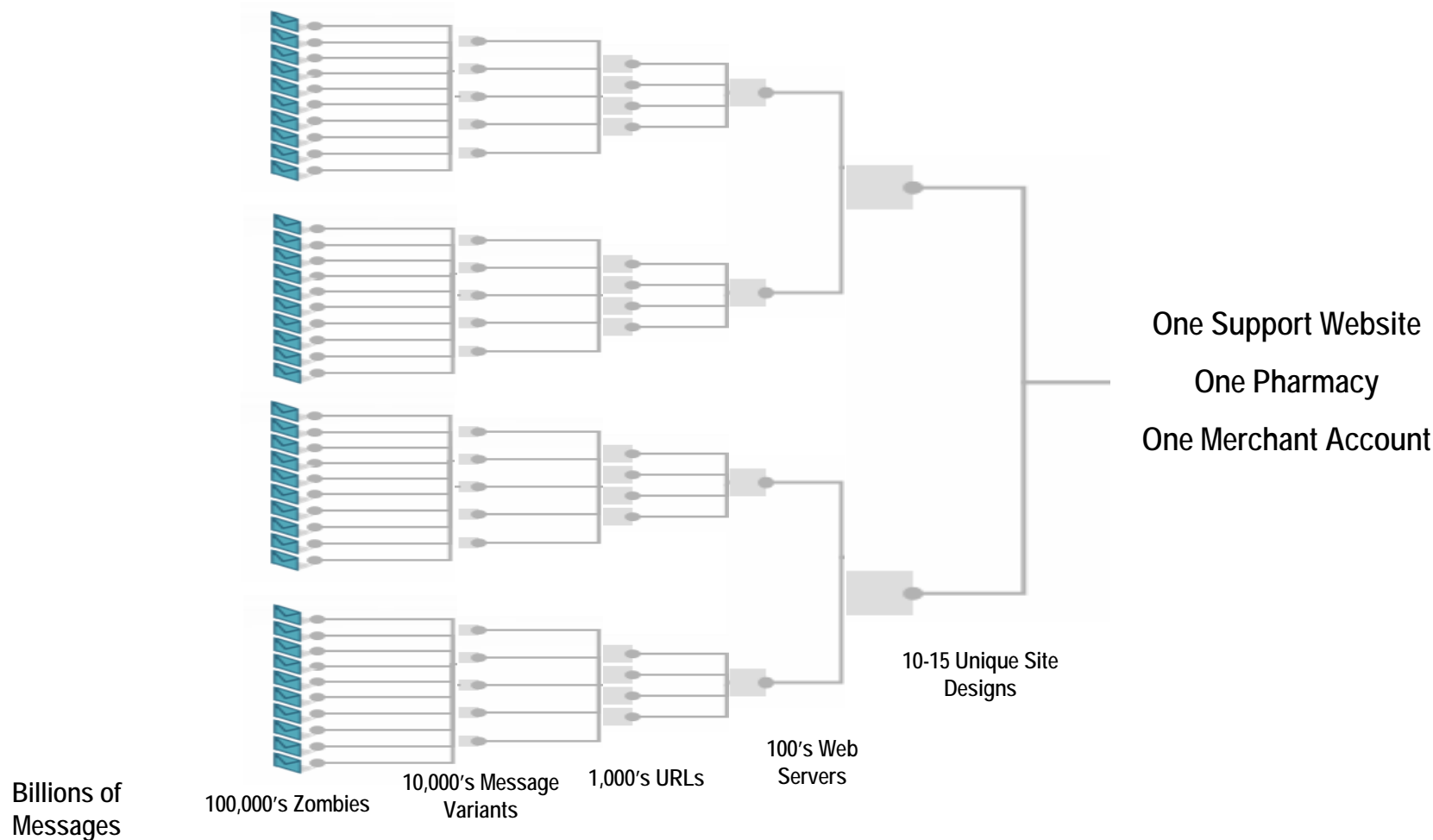
Spam Trends

Through Mid-February, 2007



- Spam volumes up 109% year-over year
- Image spam % up to 33.1%, highest level of all time
- Spam creeping upward after lull in January 2007

Identifying the Command & Control



Web Traffic: Clear & Present Risks

The Circle of Risk

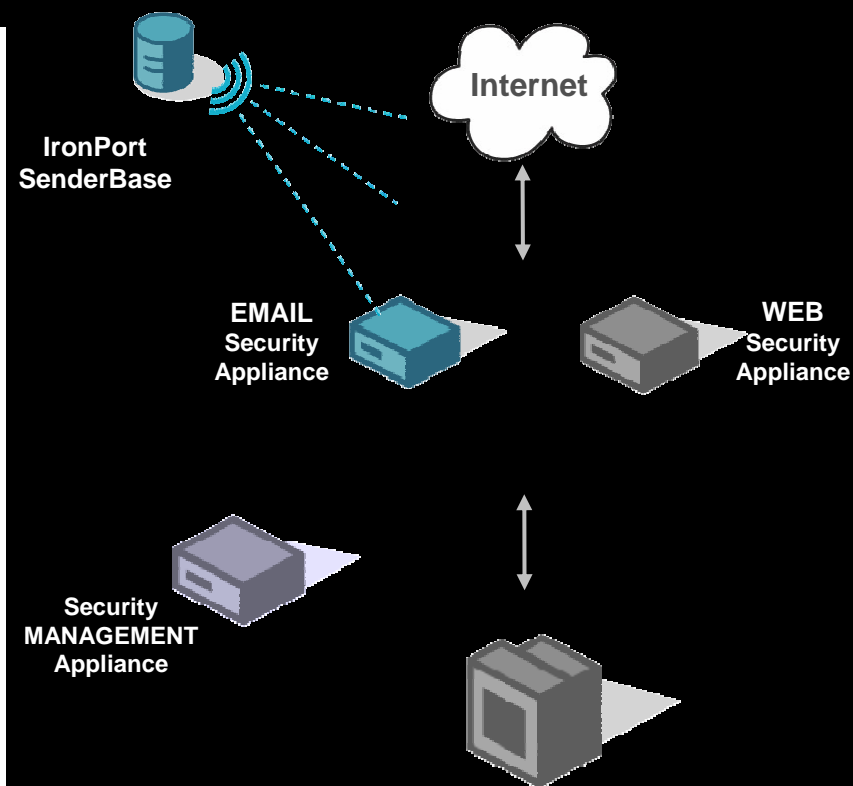
**Malware &
AUP violations**



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

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

IronPort Perimeter Security Appliances



Web Security

Email Security

Security management

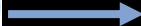
IronPort Architecture for Multi-Layered Email Security



IronPort Anti-Spam

Backed By The Industry's Most Advanced Infrastructure

SenderBase



IronPort Threat Operations Center

SECURITY MODELING



- Machine Generated Rules
- Threat Evidence Clustering

SECURITY ANALYSTS

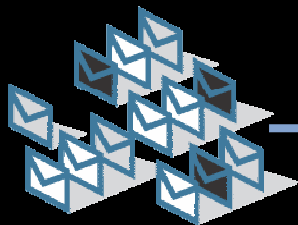


- Human Generated Rules
- 24 x 7, 32 languages

Over 100,000 updates daily



Context Adaptive Scanning Engine



END-USERS

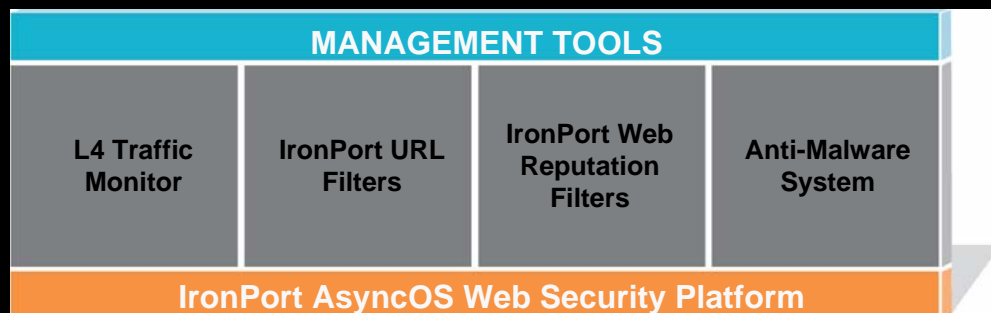
IronPort S-Series

Next Generation Web Security Platform

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



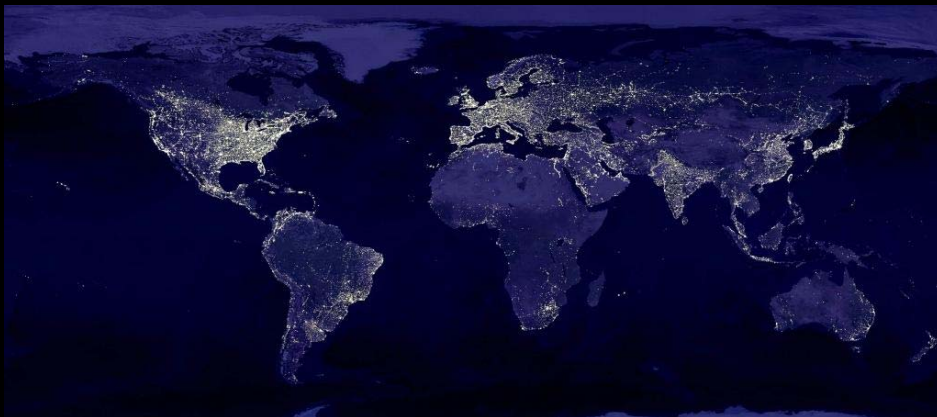
IronPort S650/S350



Ironport SenderBase® Reputation Network

Global Reach Yields Benchmark Accuracy

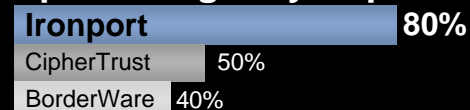
The Dominant Force in Global
Email and Web Traffic Monitoring...



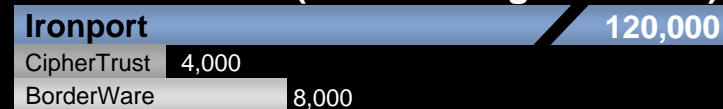
- **5B+** queries daily
- **150+** Email and Web parameters
- **>25%** of the World's Email Traffic

...Results in Accuracy and
Advanced Protection

Spam Caught by Reputation



Network Reach (Contributing Networks)



Virus Protection Lead

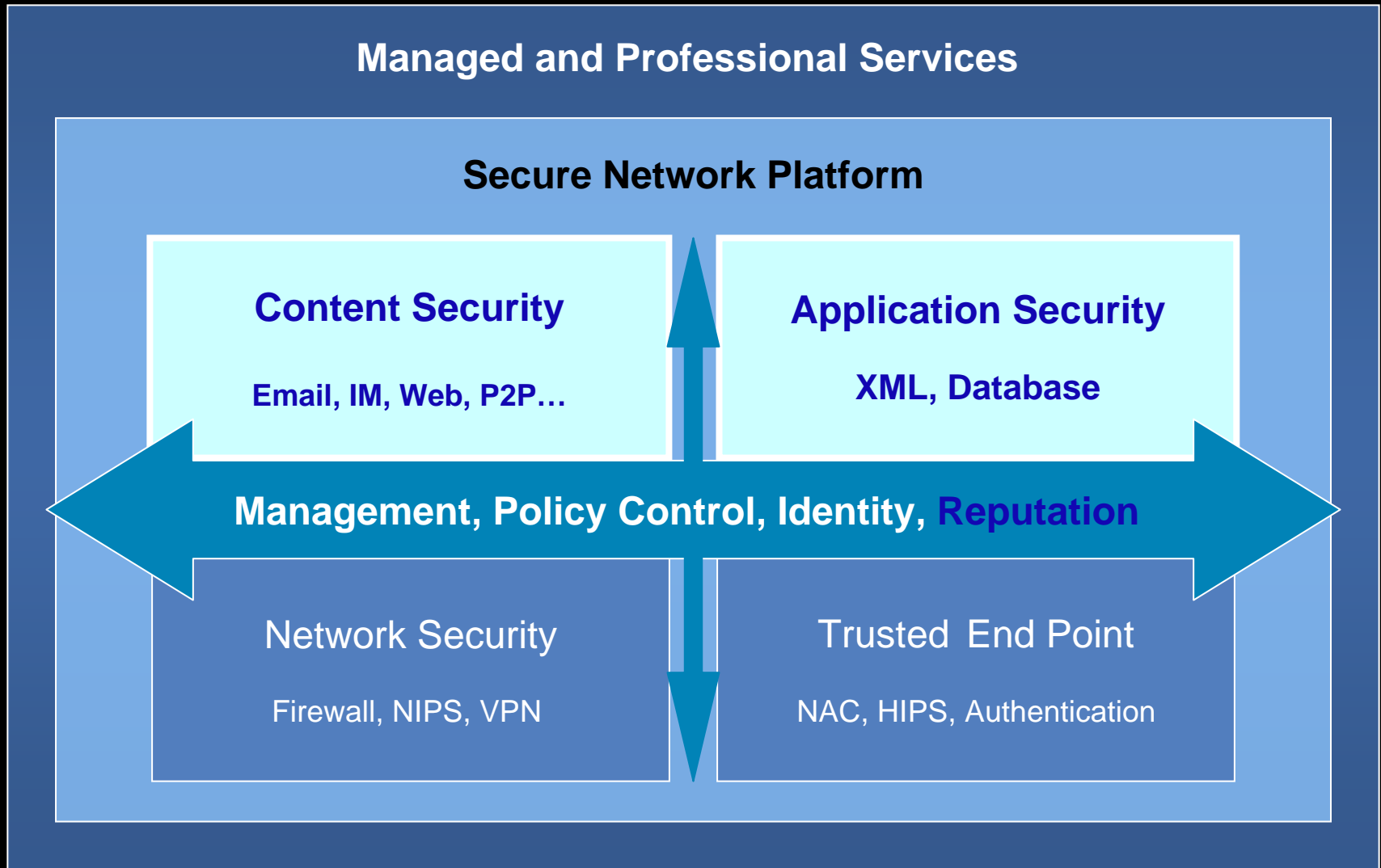


* 6/2005 – 6/2006. 175 outbreaks identified. Calculated as publicly published signatures from the listed vendors.

Source: www.ciphertrust.com and www.borderware.com, August 6, 2006

Self Defending Networks 3.0

Framework for Deeper and Wider Security Solutions



What happened since the last Expo ?

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Empowered Branch 3 Launch



- **Routing and Switching:**

- Cisco 1861 Integrated Services Router

- Cisco Catalyst 2960 switches with LAN Lite

- Stacking capabilities between Etherswitch StackWise module on Cisco ISR and Catalyst 3750/-E switches

- Unified Network Services:

- **Unified Messaging Gateway**

- Cisco Unity Express 3.1 with Interactive Voice Response

- Cisco Unified Call Manager Express 4.2 with Contact Center features

- Survivable Remote Site Telephony with E911,

- **Integrated Security:**

- NAC Network Module for Cisco Integrated Service Router

- Intrusion Prevention Module (IPS AIM) for IPS Acceleration

- **Application Intelligence:**

- Performance Routing (PfR) for Application-based Route Optimization;

- New higher capacity WAAS Network Module; Digital Media Gateway Network Module

- **Mobility:**

- 802.11 n on Wireless LAN Controller Module for Cisco Integrated Services Router

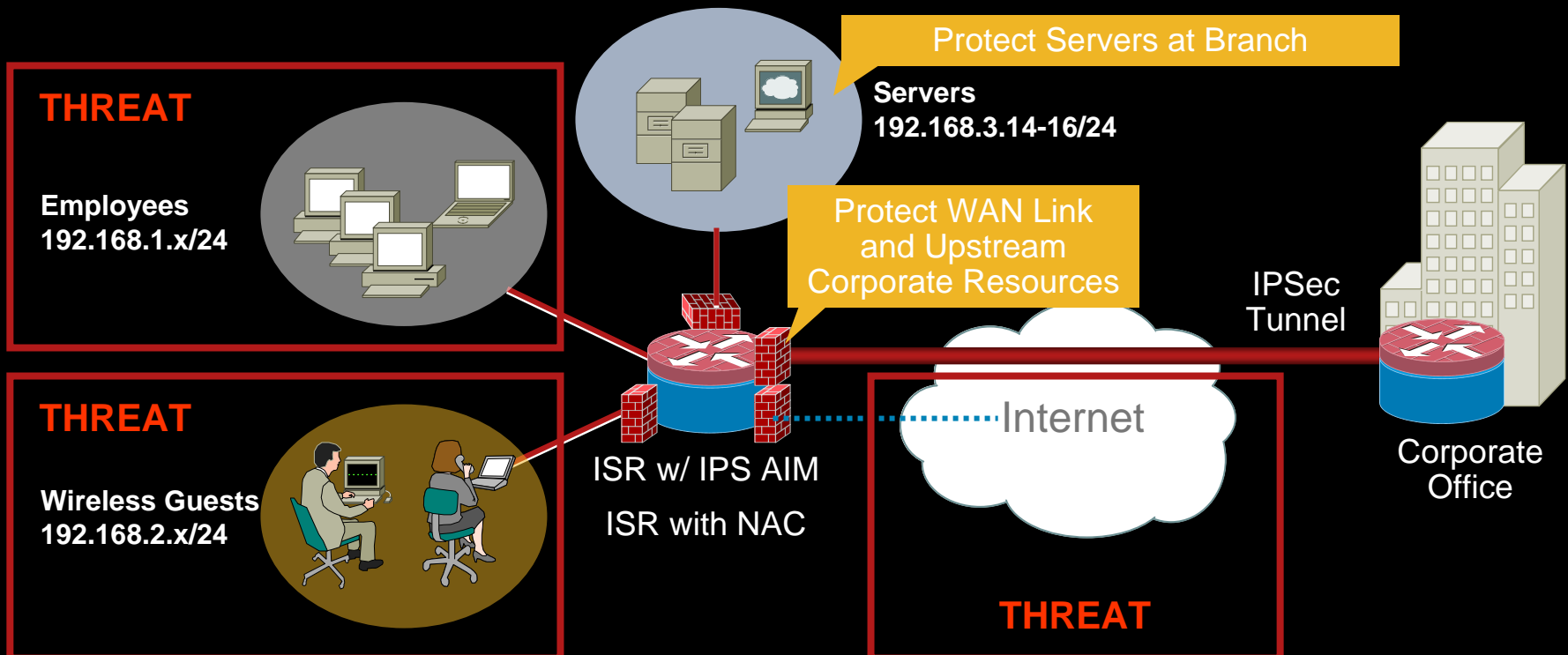
Branch Needs for Self Defending Network

Trends

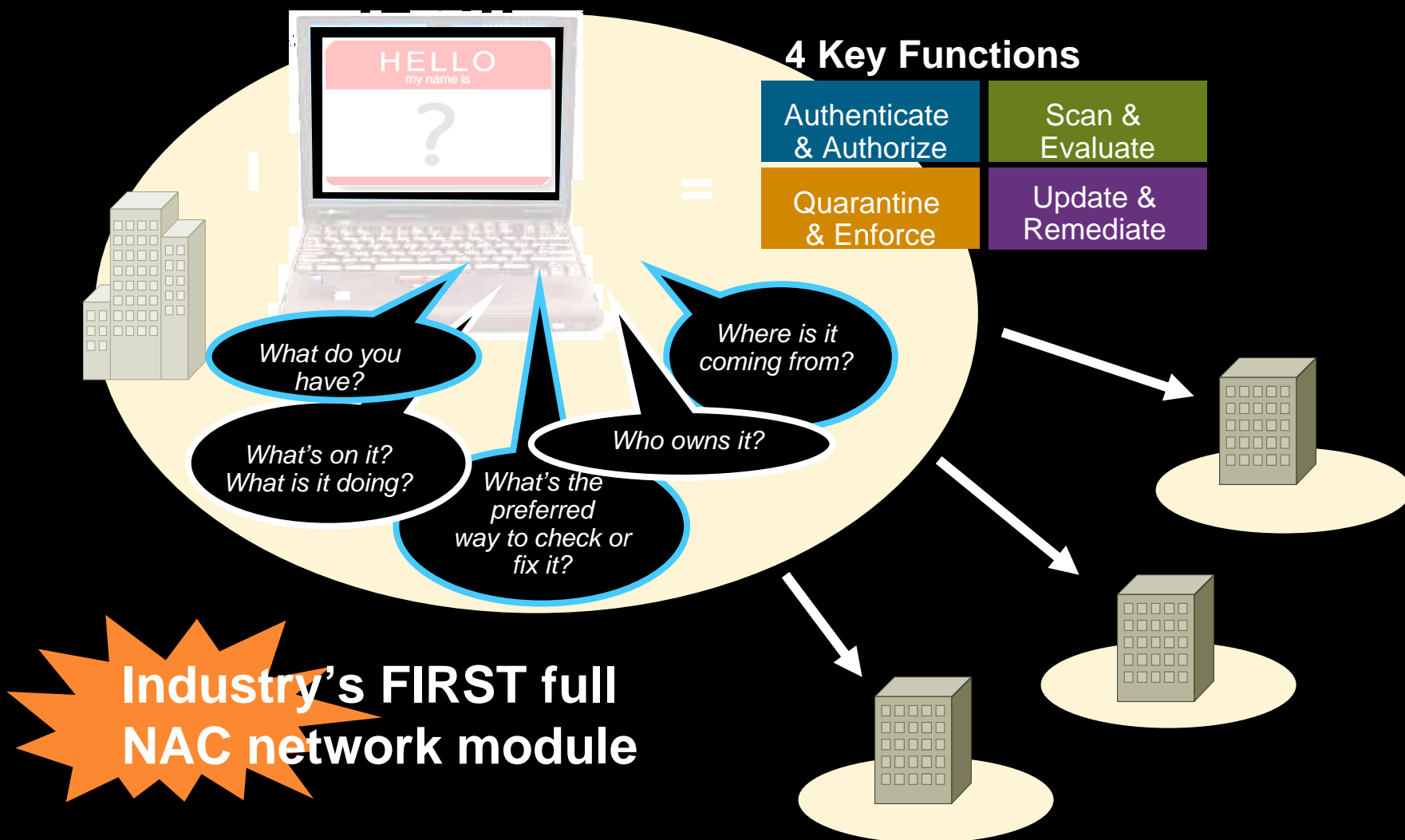
- PCI Compliance (Retail); HIPAA (Healthcare); Sarbanes-Oxley/GLBA (Finance)
- Prone to attacks from split tunnels, contaminated laptops and rogue APs

Security

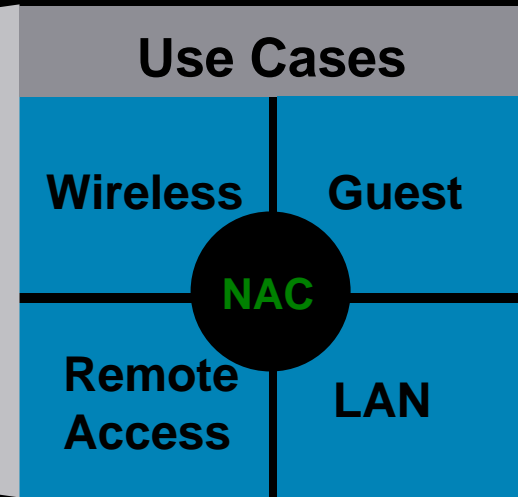
- Moves protection to the edge before threats enter corporate or SP network
- Helps to Manage Unmanaged Devices



Extending NAC with Cisco ISR Network Module



NAC Network Module on Cisco ISR



BENEFITS:

Pervasive Security

One product for all use cases and locations

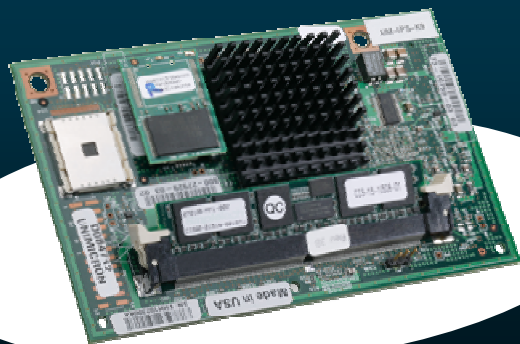
Consistent Policy

One policy store for consistent application across entire organization

Seamless Deployment

Integrated in the router for easier deployment, troubleshooting, and management

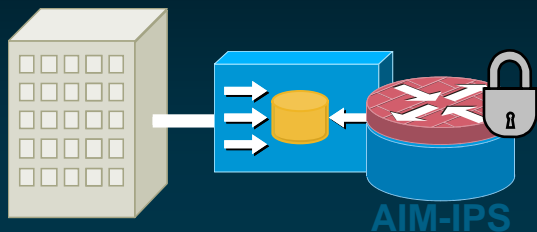
Intrusion Prevention System (IPS) Advanced Integration Module



AIM-IPS-K9

November
2007

For Cisco 1841,
Cisco 2800, Cisco 3800
Integrated Services Routers



Integrated Threat Control for Cisco ISR

- Enables Inline Intrusion Prevention (IPS)
- Runs same software (CIPS 6.0) and enables same features as Cisco IPS 4200
- Performance Improvement by Hardware Acceleration
 - Up to 45 Mbps on Cisco 3845
 - Dedicated CPU and DRAM to offload host CPU
- Management through Cisco IPS Device Manager, Cisco Security Manager (Tentative 3.2)
- Supported by CS-MARS on event monitoring and correlation

Going forward...

- Secure Everything
 - Secure Unified Communications
 - Secure Wireless
 - Secure Data Center

Cisco Is Committed to Security

- **Product and Technology Innovation**

- 1500+ security-focused engineers

- Nine acquisitions added to our solution portfolio in last two years

- 100+ partners worked collaboratively with us to deliver an unprecedented security vision

- **Industry Leadership**

- Critical Infrastructure Assurance Group

- Responsible disclosure

- Cisco Security Center web destination

- Intellishield — security intelligence and best practice sharing



“ Because the network is a strategic customer asset, the protection of its business-critical applications and resources is a top priority.”

**John Chambers,
CEO, Cisco Systems®**

Some Closing Thoughts

- Don't get overwhelmed
- Small steps can make a big difference
- Remember, you don't have to be the “best protected”—you just need to be a less inviting target than the next guy



Q and A



Cisco Networkers 2008

January 21-24 Barcelona, Spain



Ne zaboravite da se prijavite na Cisco Networkers 2008!

<http://www.cisco.com/web/europe/cisco-networkers/2008/index.html>

