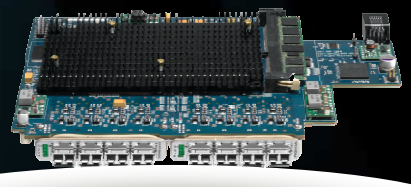
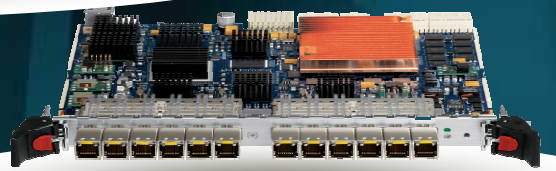
Work Smarter with Nokia





Janne Sipilä

Account Manager

Finland and Baltic States

Knowledge is Power - Agenda

Work smarter with Nokia

- New IPSO 6.1
- New Horizon Manager 1.8
- Nokia “Power Boost”

Intelligent threat management

- Know your network!
- Sourcefire Adaptive IPS
- New features on 4.8

Nokia Security business

Nokia Security business will be sold to an independent group of investors

- We expect this transaction to open up new strategic options for us as an independent company
- We are able to use Nokia Brand for a while in the future as well

Nokia Security business is very profitable

- Installed base globally, over 250000 sold IP platforms
- We will continue supporting this business and growing the installed base

Support will also work as in the past

- "First call - Final Resolution" support model
- TAC will support Sourcefire and Checkpoint products.
- Also next business day RMA replacement will be handled as in the past.

Business will continue as usual

Key Trend: Significant Increase in New Threats

Symantec Internet Security Threat Report

711,000 new treats detected in 2007

468% increase from year 2006!

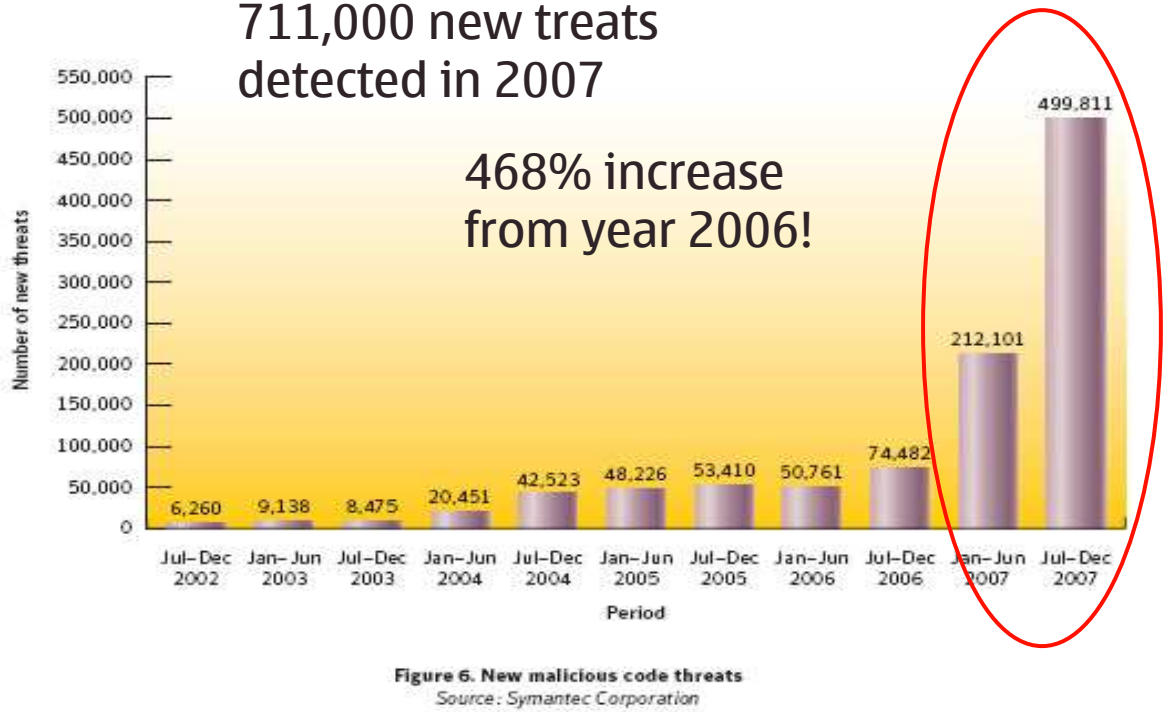


Figure 6. New malicious code threats
Source: Symantec Corporation

Do you need to protect against ALL of these threats?

Do you know, which are the vulnerabilities in your network?

What is Driving You?

External Pressure

New Threats

Regulatory Compliance

Unsanctioned Applications

IT Professional

Internal Requirements / Constraints

Application Performance

Service Level Agreements

Limited IT Resources

New Business Applications

Dissolving Perimeter

Evolving Infrastructure

Steps Toward Working Smarter

Know Your Network

- Context-based network intelligence
- Network behavior analysis
- Traffic monitoring

What you can't see can hurt you

Allocate resources smarter

- Task automation
- Implementation & upgrade services
- Platform consistency
- Ease of use

Unmanaged = unprotected

Extend the Life of Your Infrastructure

- Traffic optimization/intelligence
- Smart reuse of connectivity options
- Nokia "Power Boost"

Read the fine print

The Value of Nokia IPSO

Optimization

- More than 10 Years Performance in Demanding Environments
- Hardened Security OS
- Leading Edge Routing Support

High Availability

- Carrier Class Voltage, Temp
- Hot Swappable Modules, Interfaces
- VRRP, Patented IP Clustering

Performance

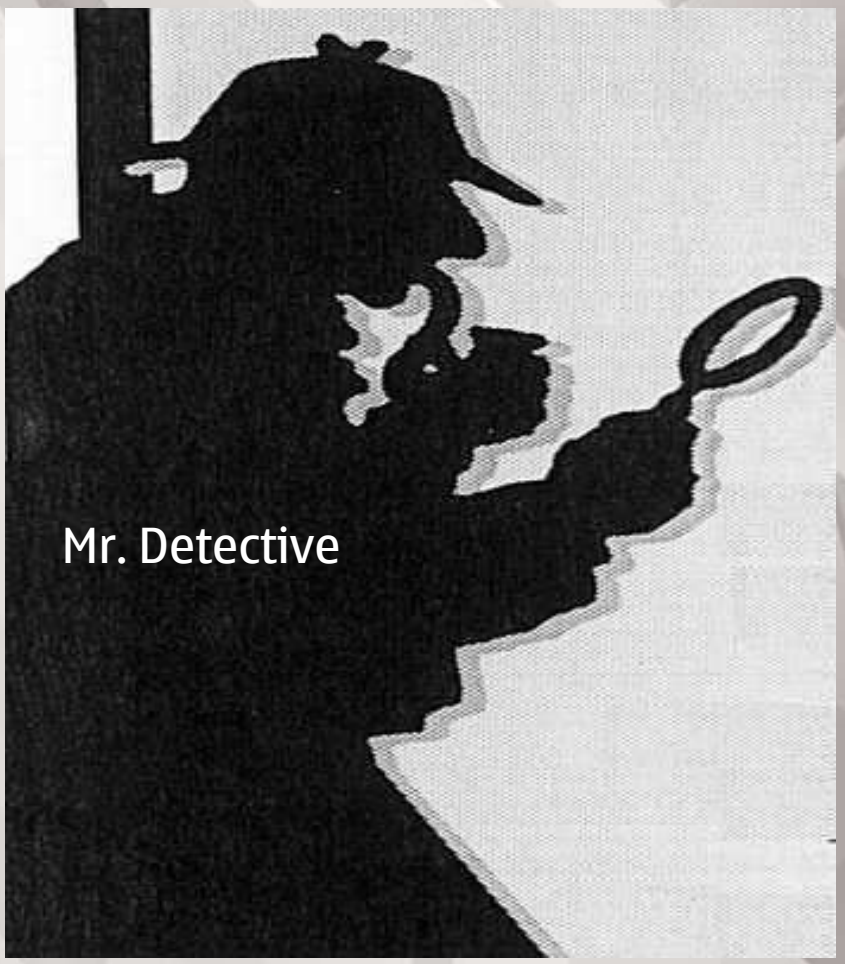
- SecureXL Acceleration
- PIM Acceleration, Multi-cast Support
- Optional Add-on with Nokia Accelerated Data Path (ADP)

Manageability

- Back-Up, Restore, Roll-back
- Central Role-Based Admin
- Geographic Interface Naming
- Network Voyager – Secure Remote Management

Uncover your Network Traffic

- **Understanding network traffic** enables intelligent network and security management
- **Prioritize** the network for mission -critical applications
- Maximize network infrastructure & avoid unnecessary upgrades
- **Improve performance** and reduce latency
- Respond to unexpected traffic patterns
- Plan for capacity needs and targeted technologies



Nokia IPSO 6.1 Intelligence

FEATURE	BENEFIT
Traffic monitoring	Network optimization, differentiated traffic services, trouble shooting, capacity and technology planning (ADP, multi-core)
Configuration Migrator	Easier upgrade, transfer of prior settings
NetFlow support	Analyze traffic flow and volume – Prioritize performance of applications – Maximize network infrastructure – Respond to unexpected traffic patterns customers
IPSO USB Automated Configuration	Simplified mass deployment and configuration for remote sites
Platform Support	Support for shipping technologies
Additional enhancements for Nokia IPSO 4.x	Support Check Point VPN-1 UTM and new hardware platforms – Continue to support existing customers

Finding & Fixing Performance Problems

Nokia IPSO 6.1 Traffic Monitoring At Work

Large North American Bank

Note: photo is fictitious

The Situation

- Small number of multi-cast packets intermittently dropping
- For this customer, every packet is essential
- Total traffic load is below throughput capability

The Solution

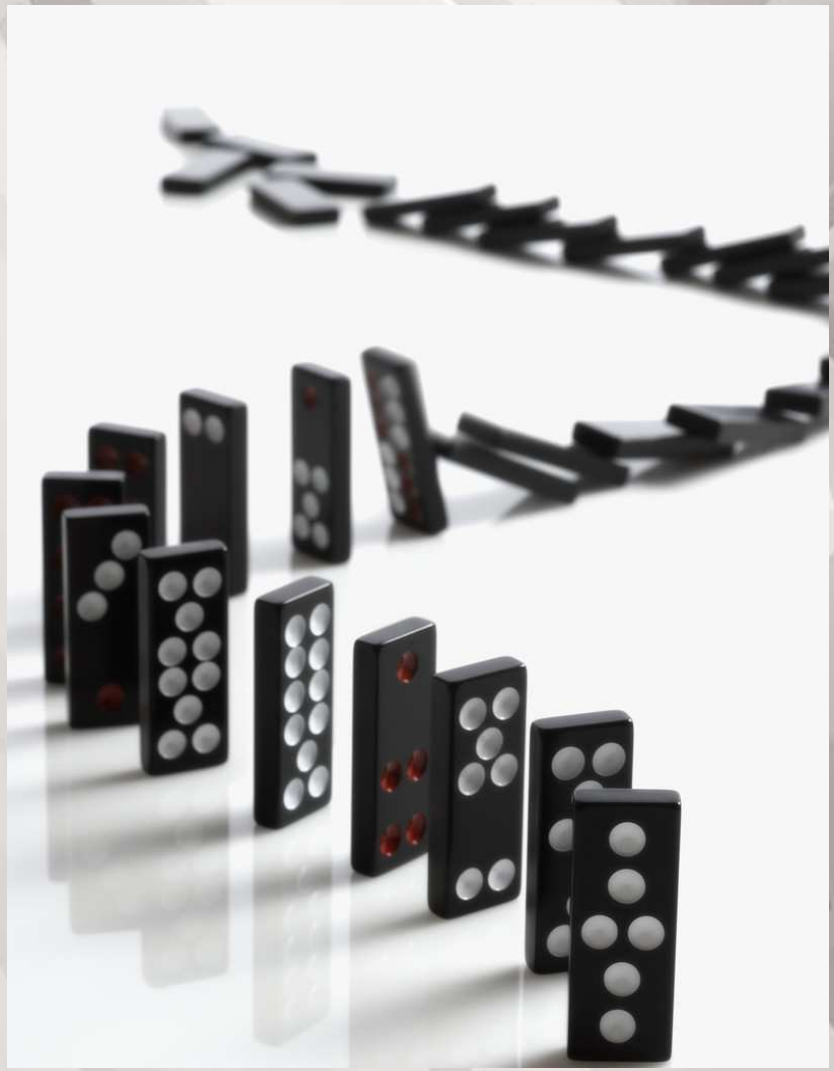
- Traffic monitoring enables determination of *individual* buffer fullness & overflow
- Review of high water marks reveals heavy traffic & identifies the problem
- Periodicity to high water marks points to the process that purges expired UDP flows out of connection table
- Adjusting size of buffers & purge frequency reduces the problem until resolved

Nokia Horizon Manager 1.8

Allocate resources smarter!

One Click Automates Thousands

- IT can no longer afford to manage one system at a time
- Automating password changes, backups, updates, configuration and monitoring make the job possible



Automating Tasks, Avoiding Mistakes

Nokia Horizon Manager 1.7 and 1.8

1.8 available Dec

Support for:

- Nokia IPSO 4.2, Nokia IPSO 6.0.7, Nokia IPSO 6.1
- DNH constraint rules auto update
- Nokia Intrusion Prevention with Sourcefire
- Nokia Virtual Firewall for Check Point VSX R65

1.7 New!

Features

- **Intelligent Monitoring and Alerting**
  - CPU, memory and disk space usage
  - Temperature and fan speed
  - Logical and physical interface performance statistics
- **"Do No Harm"** Constraints to Avoid Mishaps
  - Rules to determine compatibility between software packages, IPSO versions and device types

Benefits

- **Helps scale limited IT staff resources**
- Simplifies management of complex enterprise security infrastructure
- Best-practice maintenance and deployments
- **Reduces administration cost**

Extend the Life of Your Infrastructure

Boost performance when and where you need it

Refreshed Platform Design

Multi-Threaded Apps

- Check Point CoreXL

Nokia IPSO

- Nokia IPSO Operating System
- IPSO 6.X

ADP Cards

- ADP Services Modules for IP560, IP12xx, IP690

- for IP2450, IP1280

New Nokia Platforms

- Nokia IP2450

- Nokia IP1280

- Nokia IP690

Nokia IP Security Platform Portfolio

= multi-core

Low-end

Nokia IP60

Nokia IP290

Nokia IP150

Mid-range

Nokia IP690

ADP Module

Nokia IP560

ADP Module

Nokia IP390

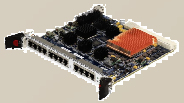
High-end

Nokia IP2450

ADP Modules

Nokia IP2255

Nokia IP1280


ADP Module

Nokia IP1220/IP1260

ule

Nokia IPSO

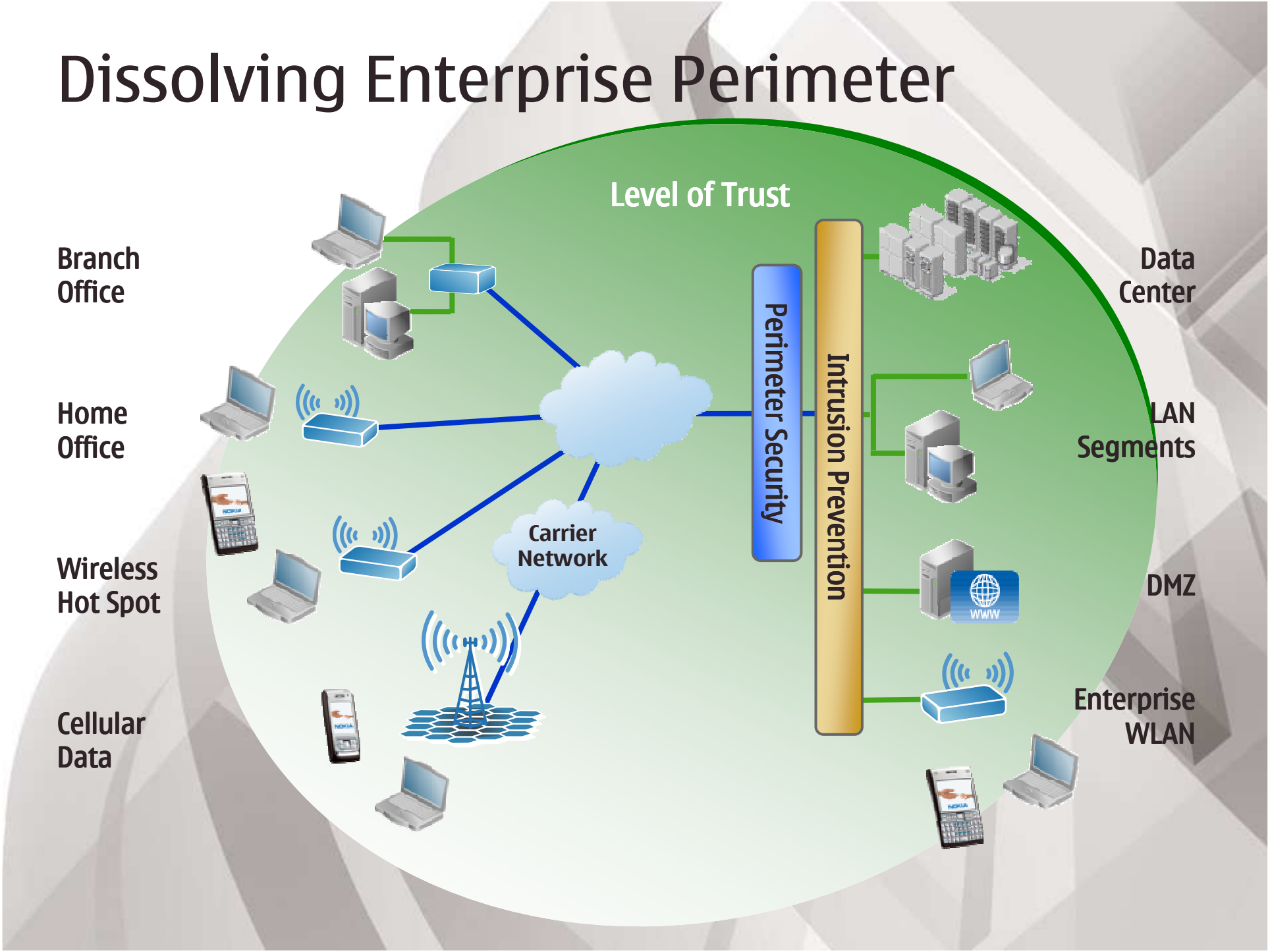
Nokia Horizon Manager

New version

New version

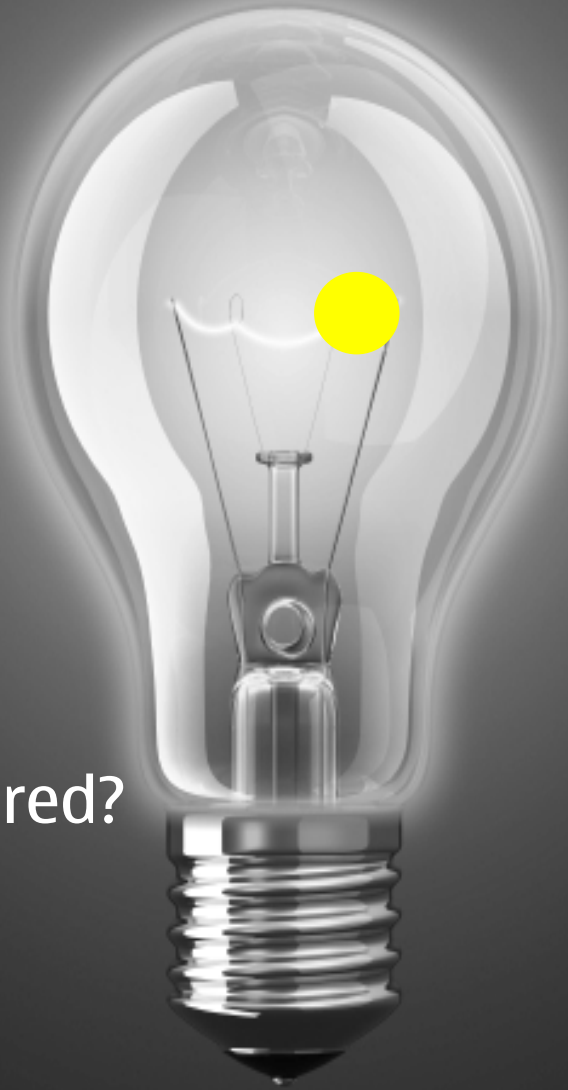
Check Point
SOFTWARE TECHNOLOGIES LTD.

Dissolving Enterprise Perimeter



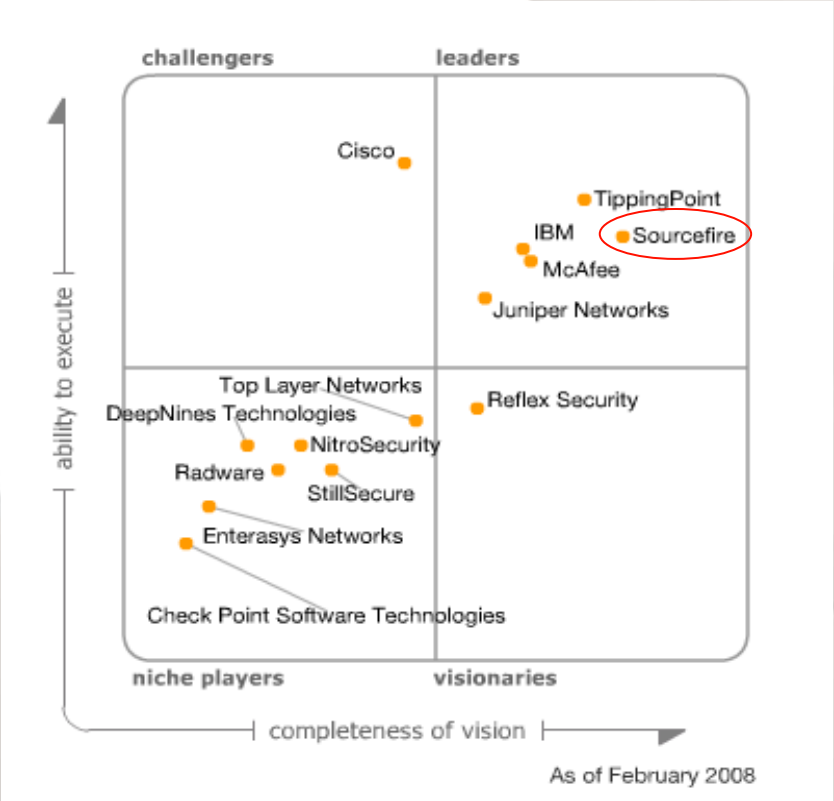
Knowledge is Power!

- What hosts do you have in the network?
- What software or services are running?
  - Are they vulnerable?
- How about the operating systems?
  - Are you using Network Access Control (NAC)
- How my partner connections are monitored?
  - Are they using only the services they are supposed to?



Sourcefire: Ideal to Deliver our Vision

Sourcefire is the recognized leader
for Intrusion Prevention and beyond



Best of All Worlds

SNORT®

Open Source Community

+

SOURCEfire®
Security for the real world.

Sourcefire Innovation

+

NOKIA

- **Proven credibility**
- **Worldwide reach & support**
- **Common appliance interface**

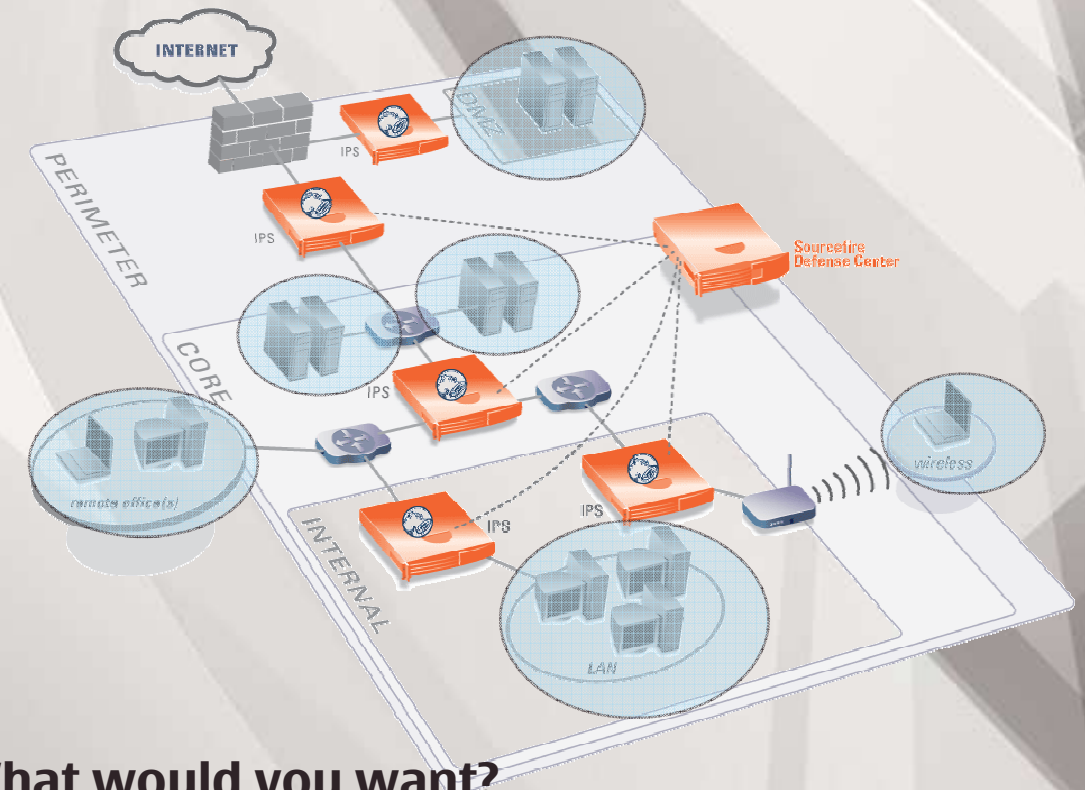
What would be an ideal system to protect your network?

Hosts, Services, Users, Vulnerabilities, Access Control, IT Policies...

Real-time Network Discovery

Automated System Tuning

Block, Alert or Automated responses to events

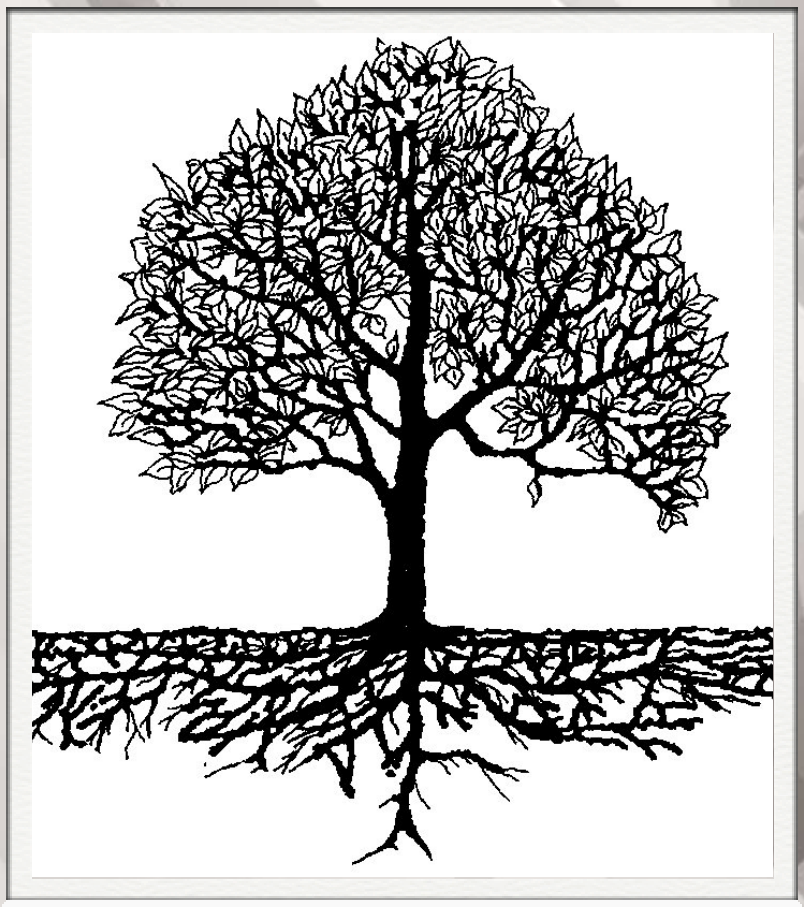


What would you want?

- Tools for Proactive Network Security – Reduce Risk
- All-the-time/real-time knowledge of attacks, targets and state of your critical systems
- Save money and time - Achieve excellent TCO

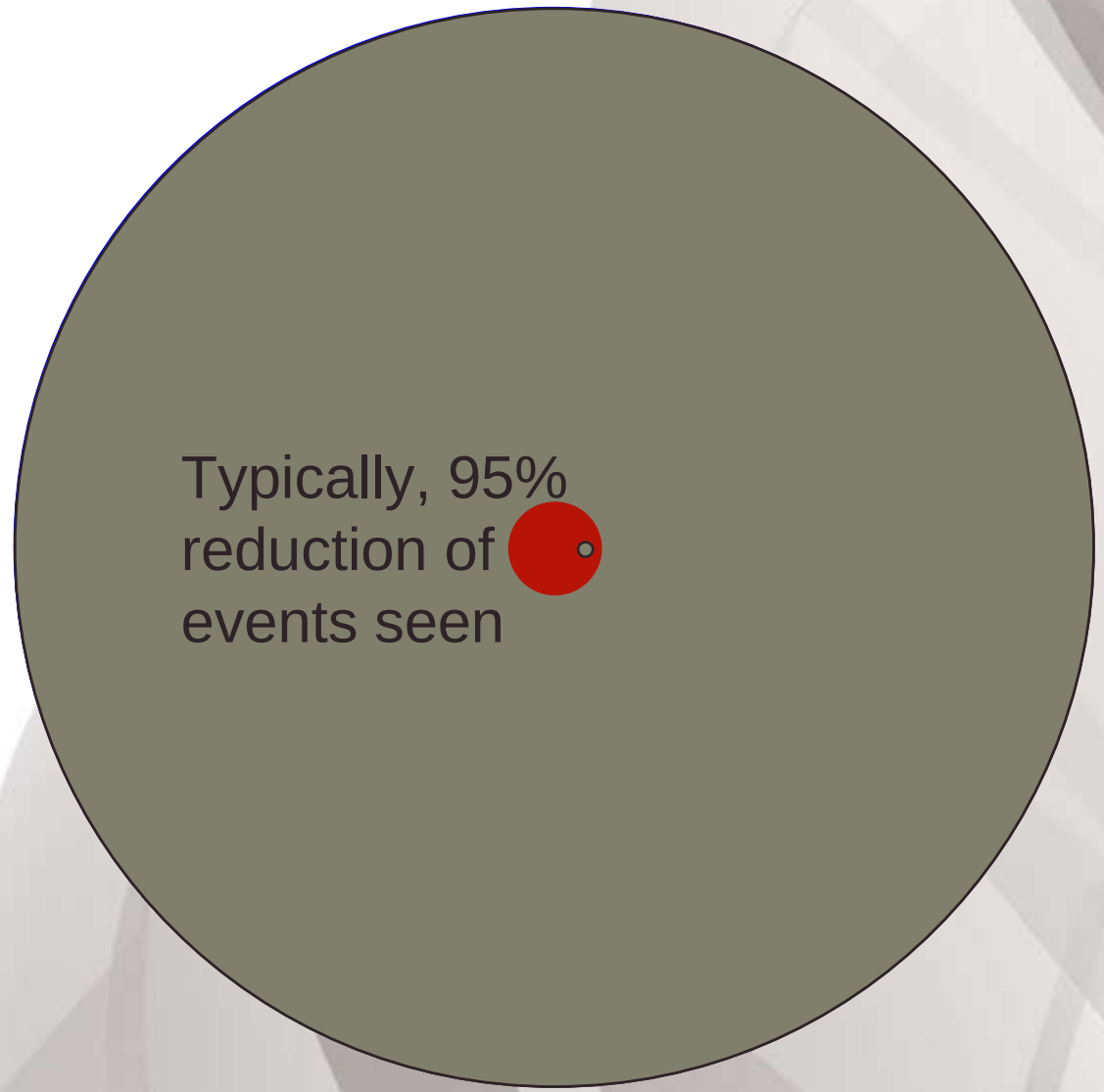
Real-Time Network Discovery, RNA is the foundation behind ...

- Intrusion event prioritisation
- Automated IPS tuning
- IT policy compliance
- Network behaviour analysis (NBA)



RNA = Real-time Network Awareness

… Intrusion event prioritisation



Intrusion event

Vulnerable
(exploit targets known vulnerability)

Possibly vulnerable
(exploit targets OS and/or service)

Not vulnerable
(no service present)

Not present
(no host present)

Automated IPS Tuning

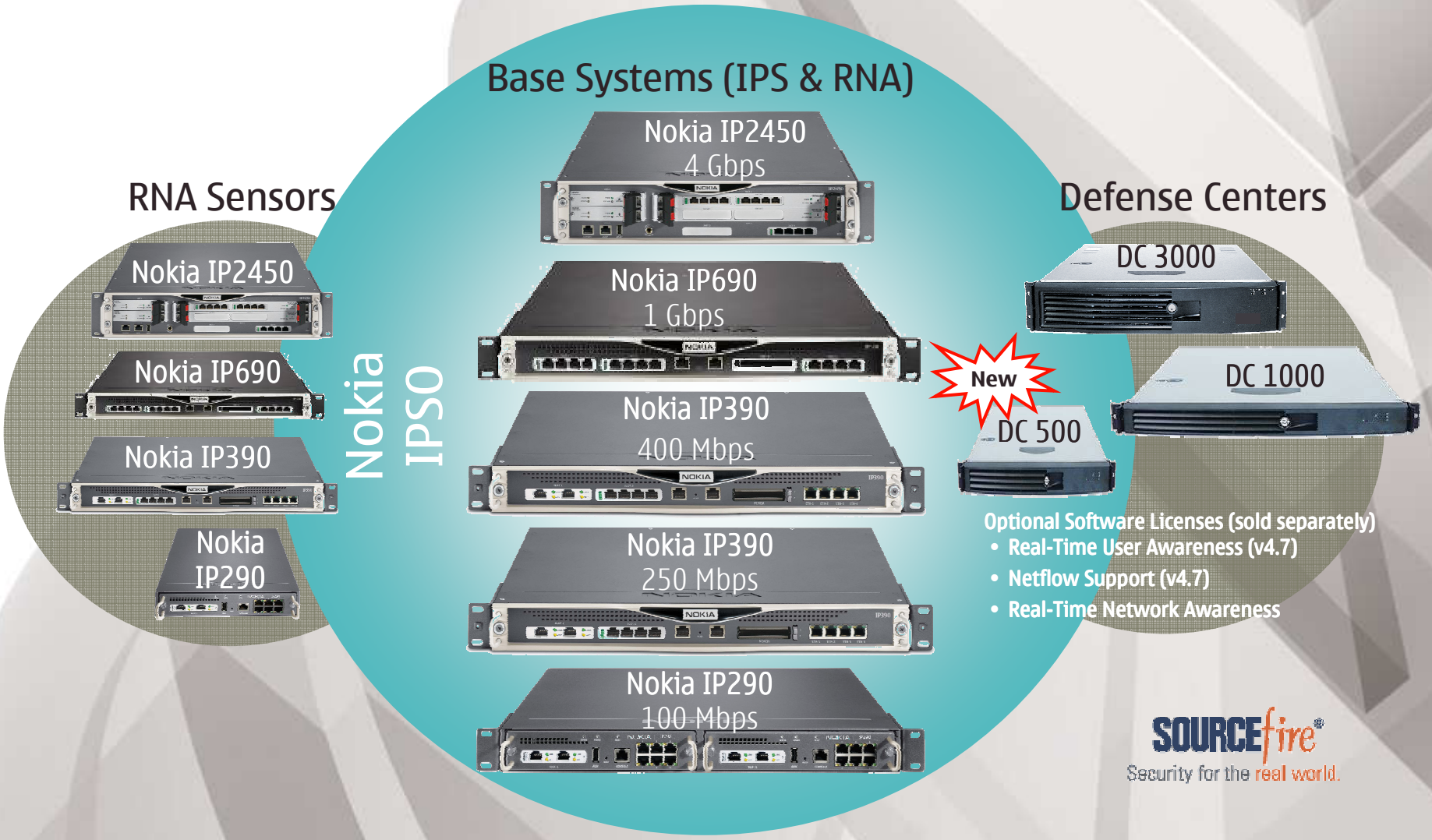
- How often does your network change?
- How often do you tune your IPS?
- Key “Adaptive IPS” capabilities include:
  - RNA Recommended Rules
  - Adaptive Traffic Profiles
  - Non-Standard Port Handling

Nokia Intrusion Prevention with Sourcefire

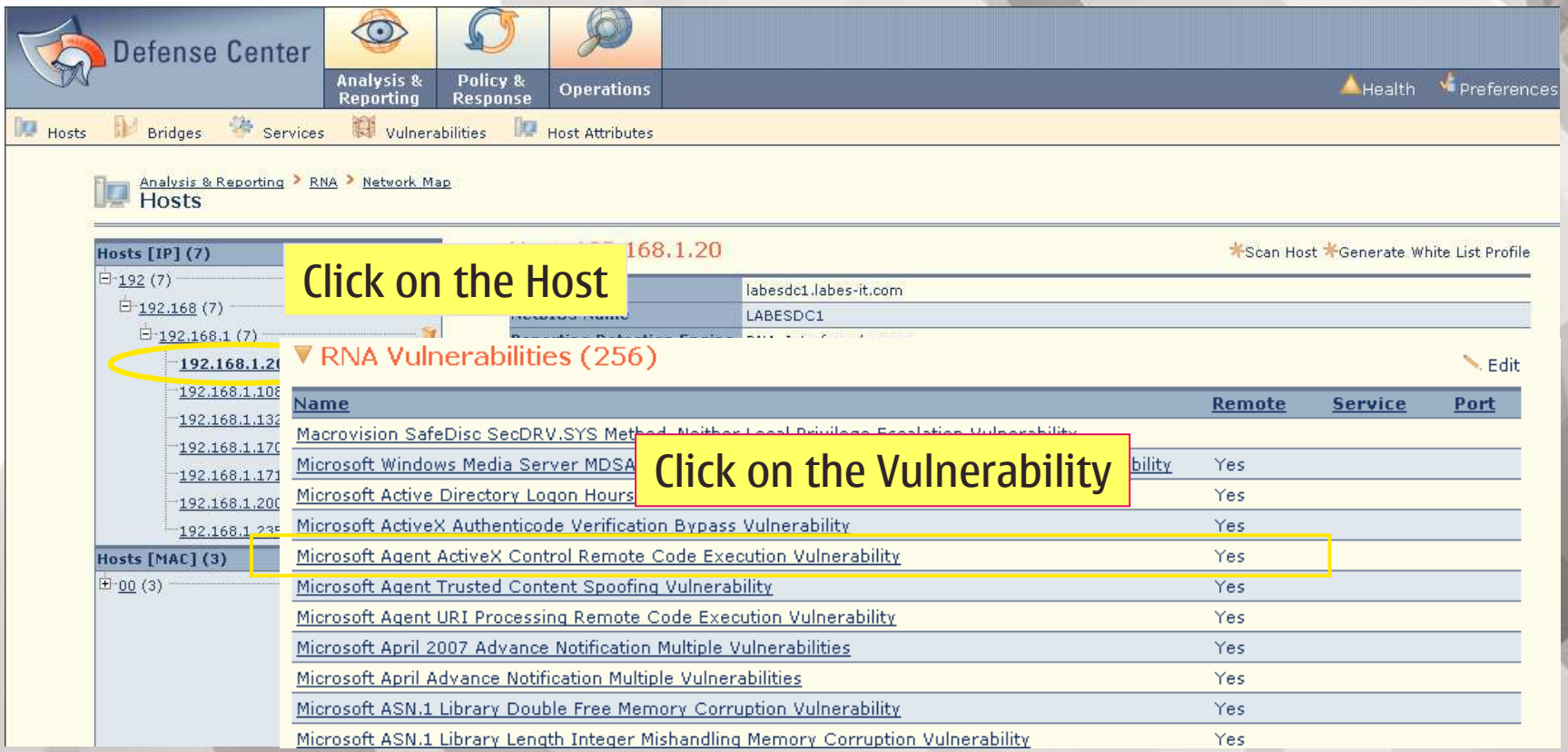
- Increased intelligence over traditional IPS solutions
  - Combines threat and vulnerability analysis with network behavior analysis
  - Results in fewer false positives and negatives, and lower management overhead
- Purpose-built security appliance
  - Runs on hardened Nokia IPSO™ OS
  - High port-density with multiple detection engines
  - Rigorous testing for large enterprise deployments
- Worldwide 24x7 support
  - First call final resolution
  - Over 10 years experience serving the world's most demanding customers

SOURCEfire®
Security for the real world.

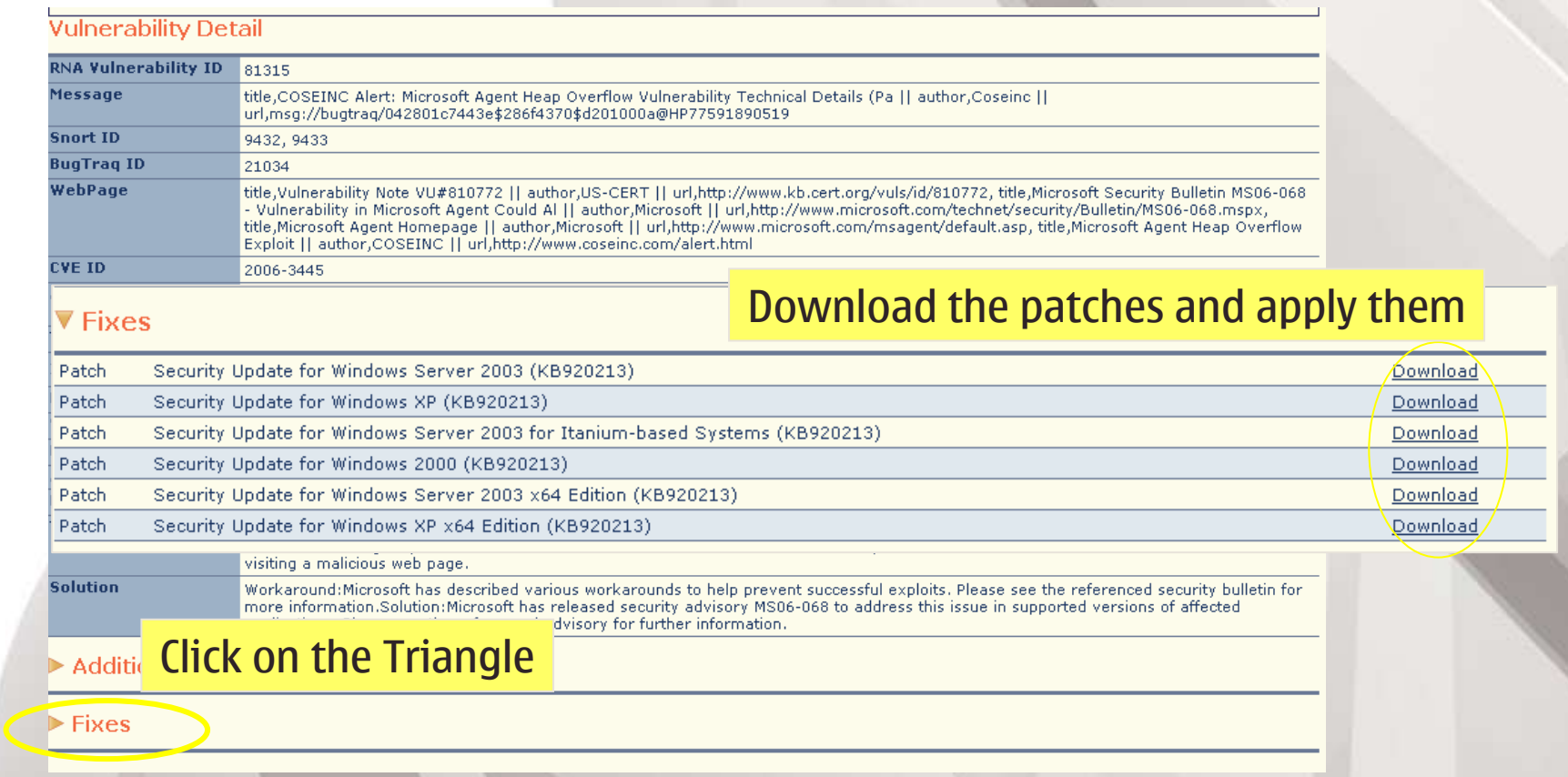
Nokia Intrusion Prevention Product Portfolio



Extracting Endpoint Intelligence



Understand the Vulnerability



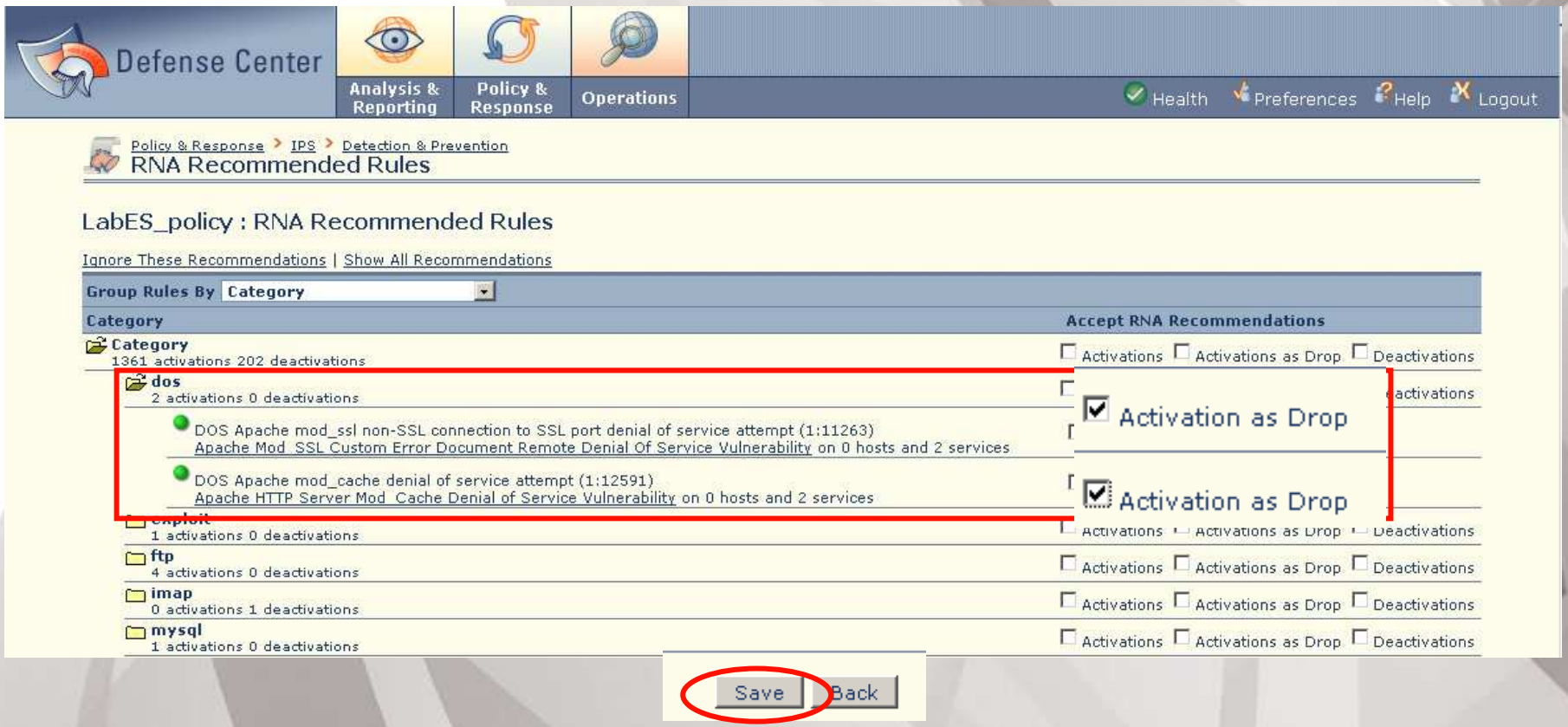
Extracting Services on the Network

Automatically Tune Your IDS/IPS

Nokia IPS Derives Rules based on:

- Endpoints
- Vulnerabilities

Recommended Rules

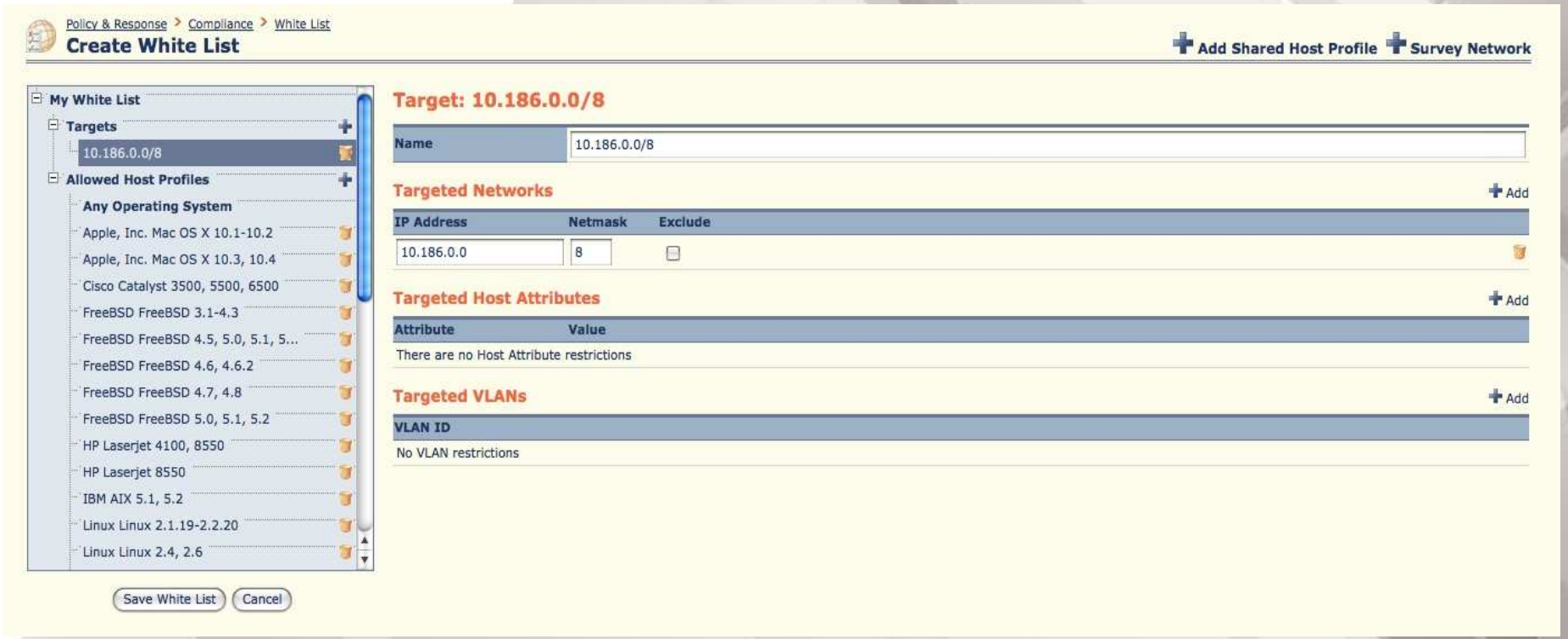


Typical Customer Feedback

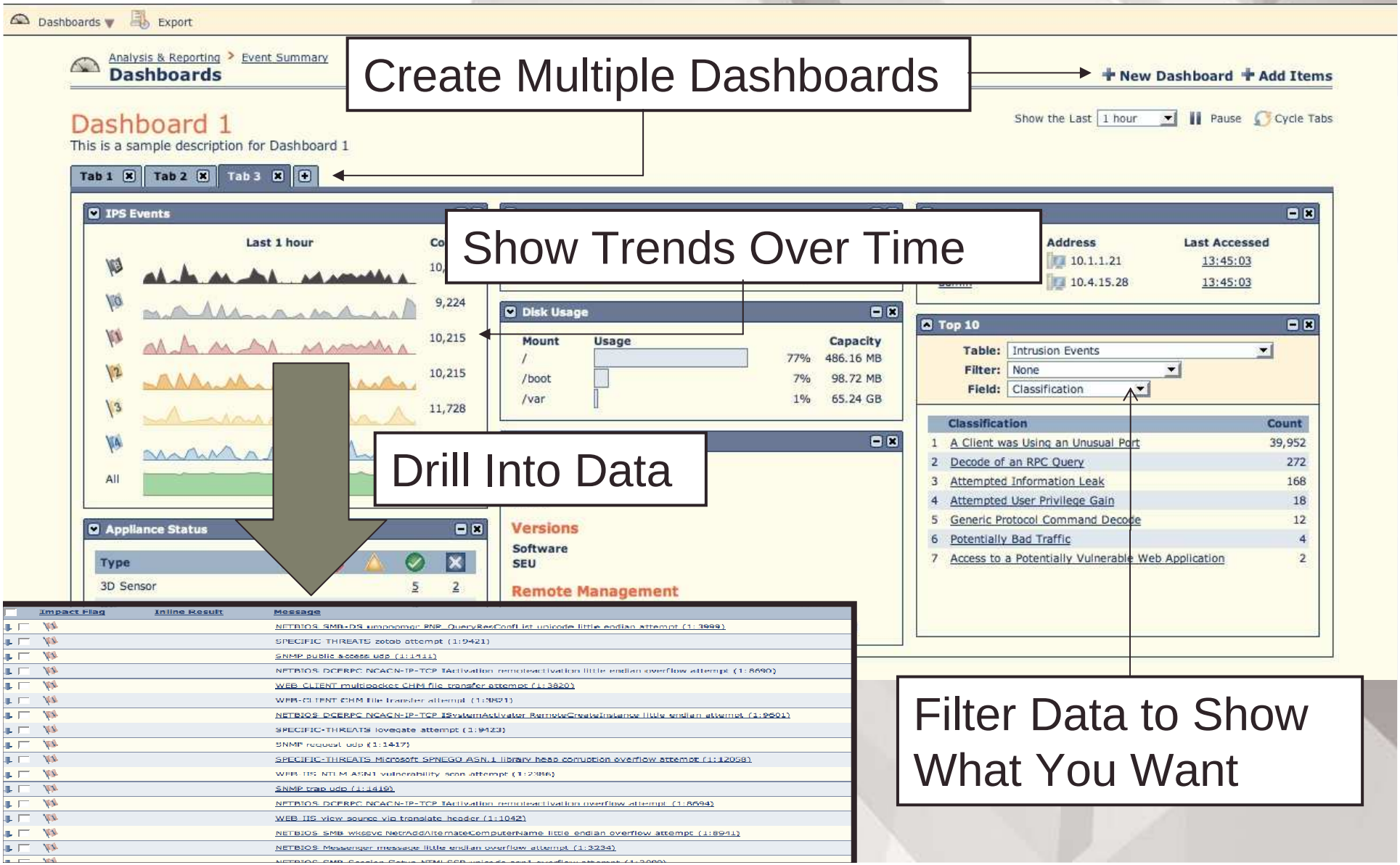
99.9% Event Reduction!

THE INSTITUTE
FOR APPLIED NETWORK SECURITY

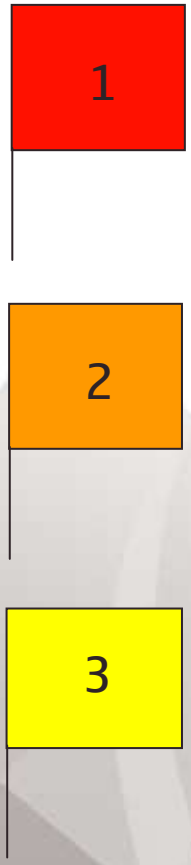
Compliance White List



Work With Security Events Intuitively



IMPACT Flags Prioritize Events



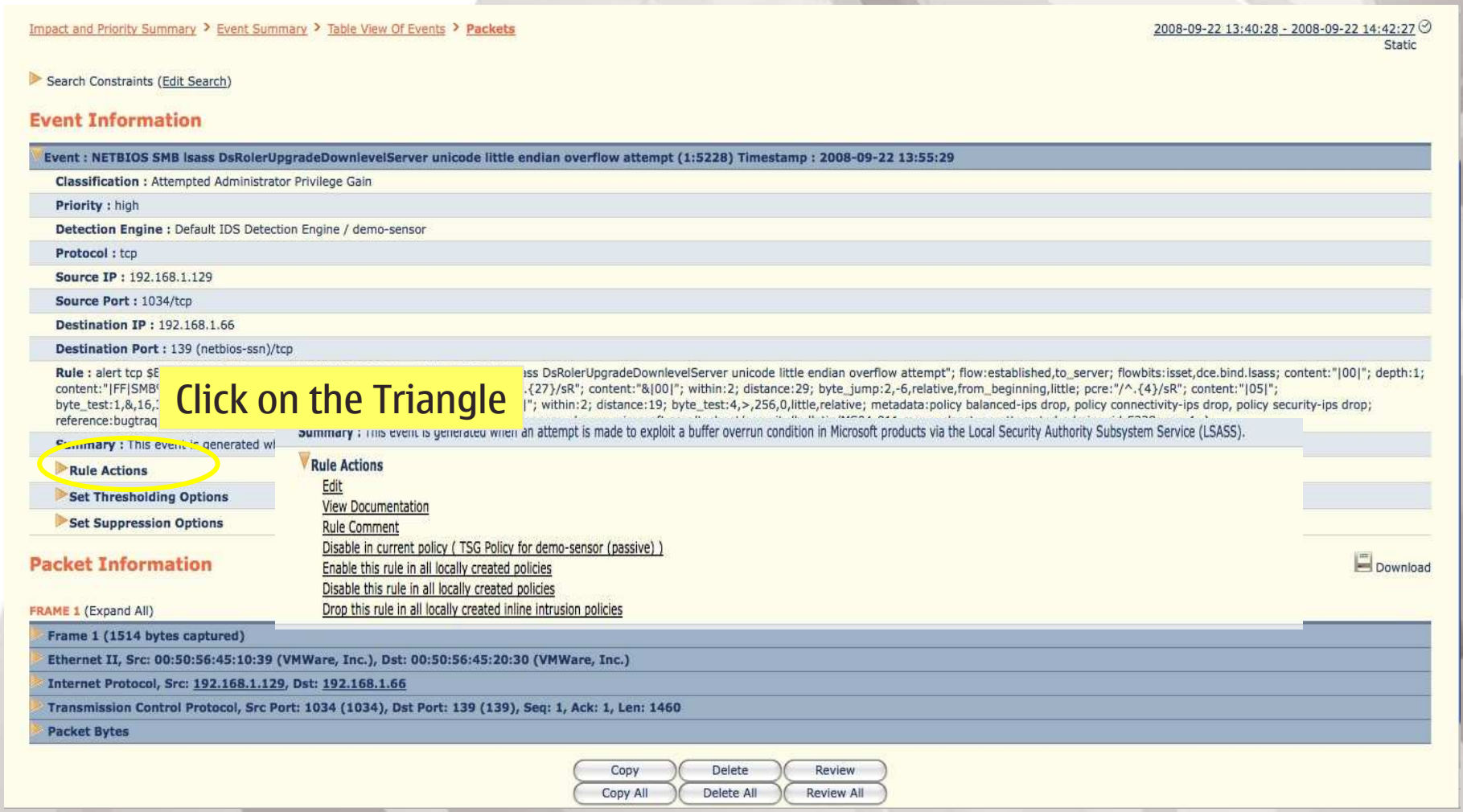
Act Immediately – Host is Vulnerable

Investigate – Host Potentially Vulnerable

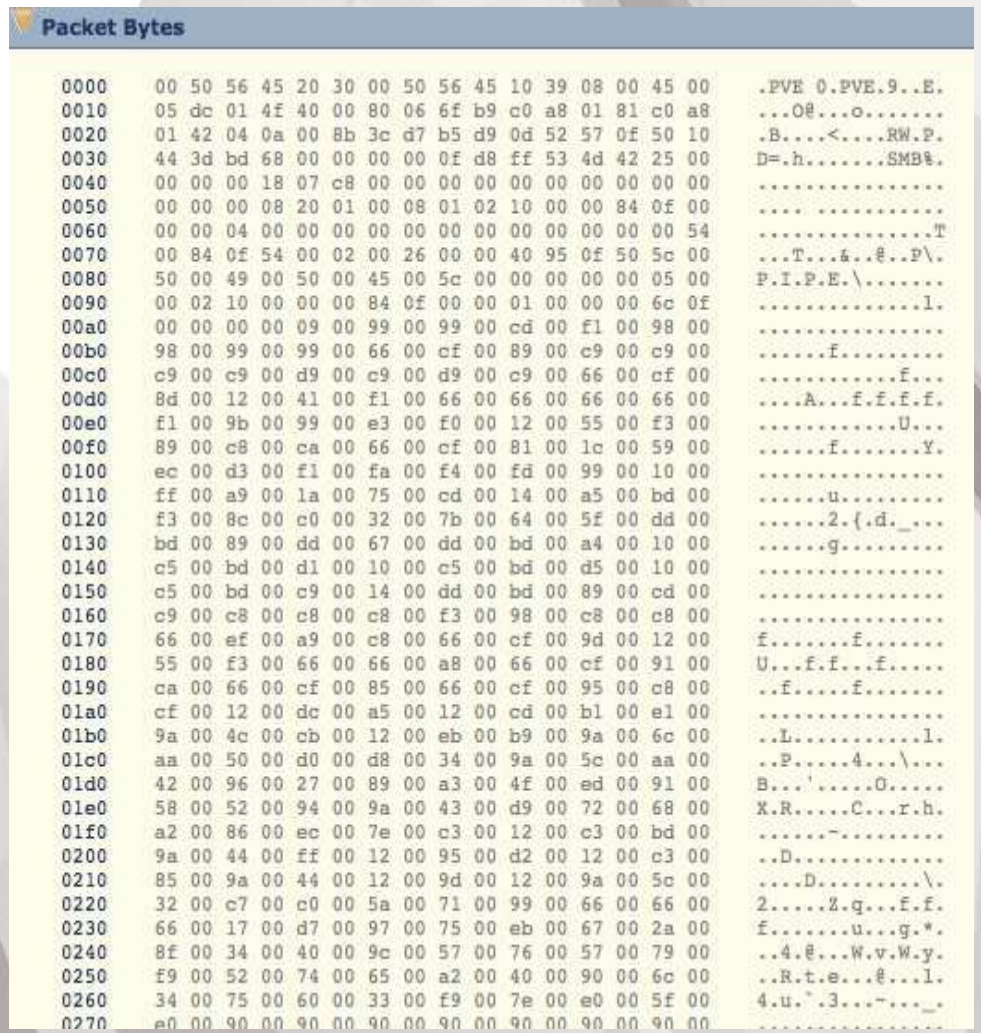
Good to know – Host Not Vulnerable

Impact Flags Prioritize Events

Drill-down to the Rule



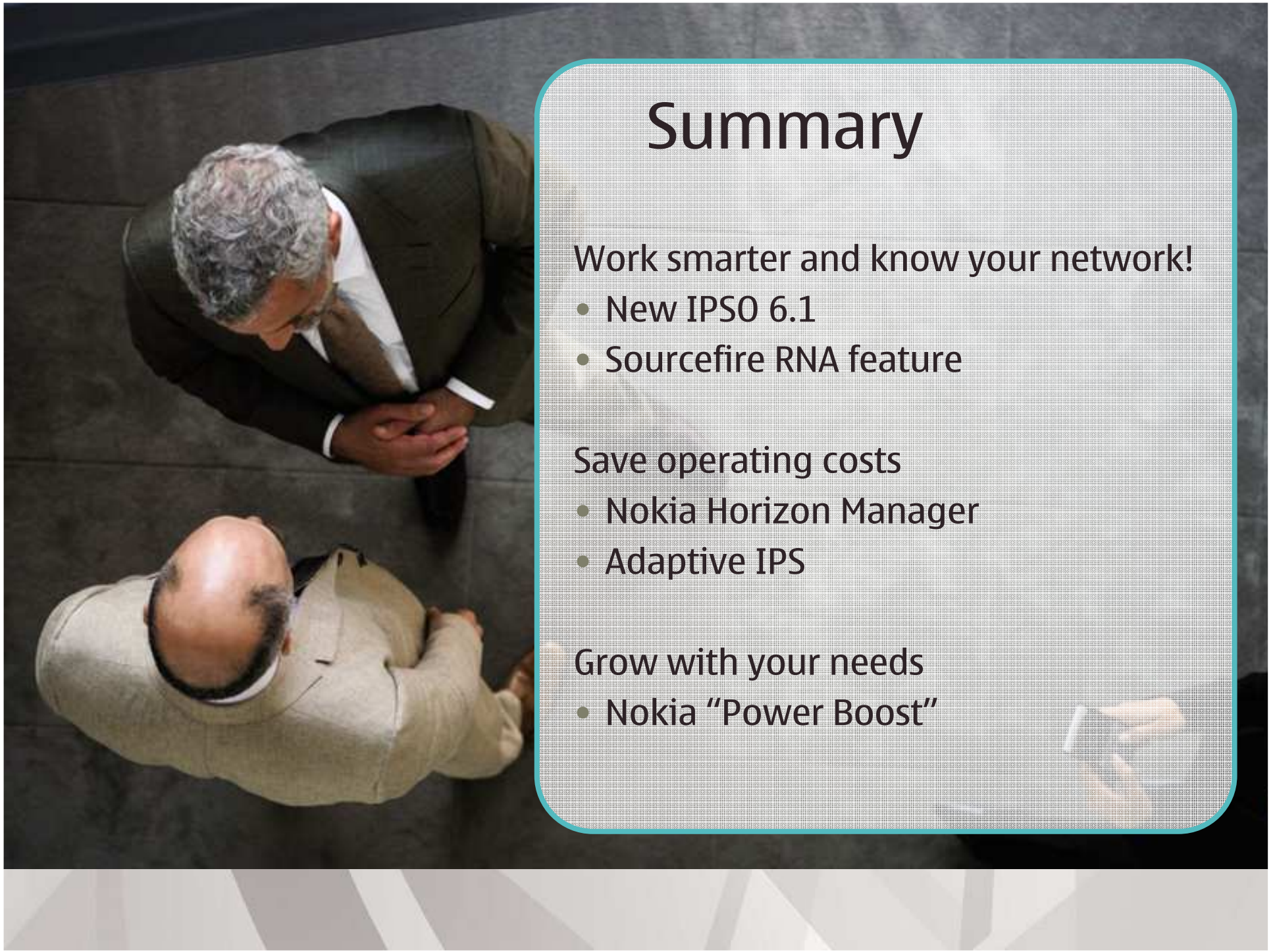
Drill-down to the Packet



Sourcefire 4.8 Headline Features

1. New Portal-Like Dashboard
2. Streamlined Defense Center Setup
3. Automated SEU Administration
4. Improved Packet-Level Forensics
5. Sliding Time Window
6. Snort Rule View Filtering
7. Adaptive IPS Enhancements
8. RADIUS / SecurID Support
9. Admin User Enhancements
10. Backup and Report Storage Improvements
11. MAC Address Vendor Identification

Available Now!



Summary

Work smarter and know your network!

- New IPSO 6.1
- Sourcefire RNA feature

Save operating costs

- Nokia Horizon Manager
- Adaptive IPS

Grow with your needs

- Nokia “Power Boost”

Questions?