

Moving From a Reactive to a Proactive Security Model

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www.lumension.com

Vulnerability Management | Endpoint Protection | Data Protection | Reporting and Compliance

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Agenda

- State of Endpoint Security Market
 - » Customer Challenges
 - » Industry Trends
- A New Age of End-Point Security
 - » Taking a Positive, Proactive Approach
 - » Highly Secure, Highly Operational

State of Endpoint Security Technology Market

How much would you pay for this USB stick?





Some would pay

\$15 BILLION



BOEING[®]

would!

18 Year Employee Steals Over 320,000 Files

A King County jury began deliberations today in the case of a Boeing employee charged with leaking sensitive company

Boeing claimed that 16 stories in The Seattle Times contained information from downloaded documents

The host might feel the guest "violated his trust," she told jurors. "Maybe he kicks you out. But you don't get executed."

Can you guarantee that your CEO's laptop is not compromised?

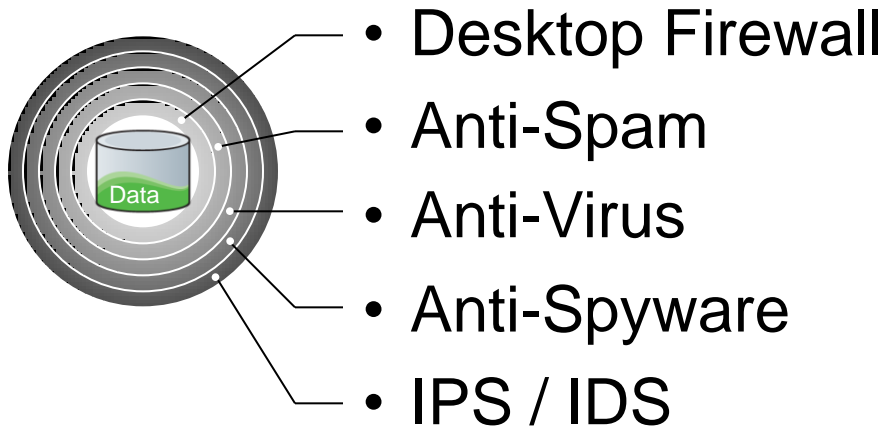
High Paid CEOs Targeted by Keyloggers

A King County jury began deliberations today in the case of a Boeing employee charged with leaking sensitive company information.

Boeing claimed that 16 stories in The Seattle Times contained information from downloaded documents.

The host might feel the guest "violated his trust," she told jurors. "Maybe he kicks you out. But you don't get prosecuted."

Traditional Reactive Security has failed to stop these situations.



Reactive Security POP QUIZ

When tested against 660,000 signatures, how many did "The Big 2" miss?

Missed Over
30,000

Missed Over
80,000

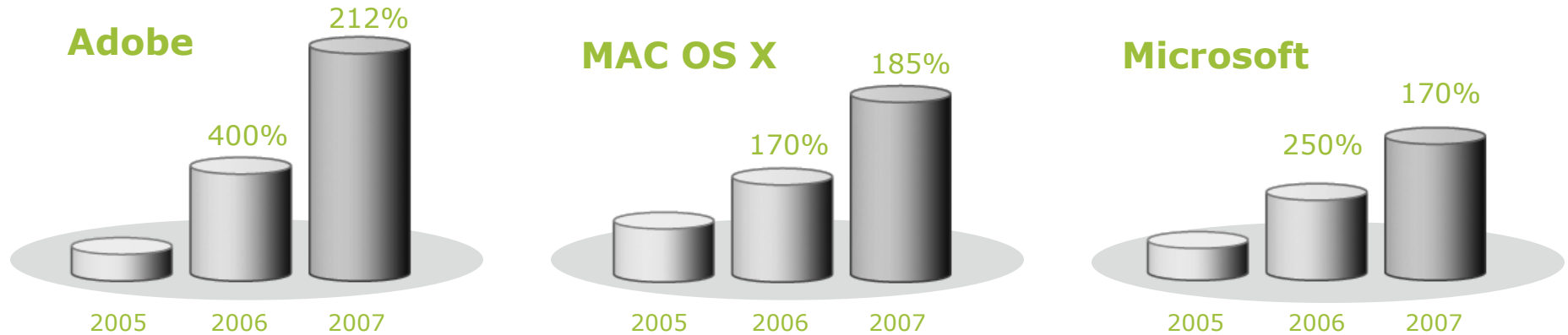
Each Day, the Problem Gets Bigger

On average, 15 new vulnerabilities are released per day



Hackers find New Avenues of Attack

▣ NVD reported 13,270 vulnerable applications as of 01/08/08

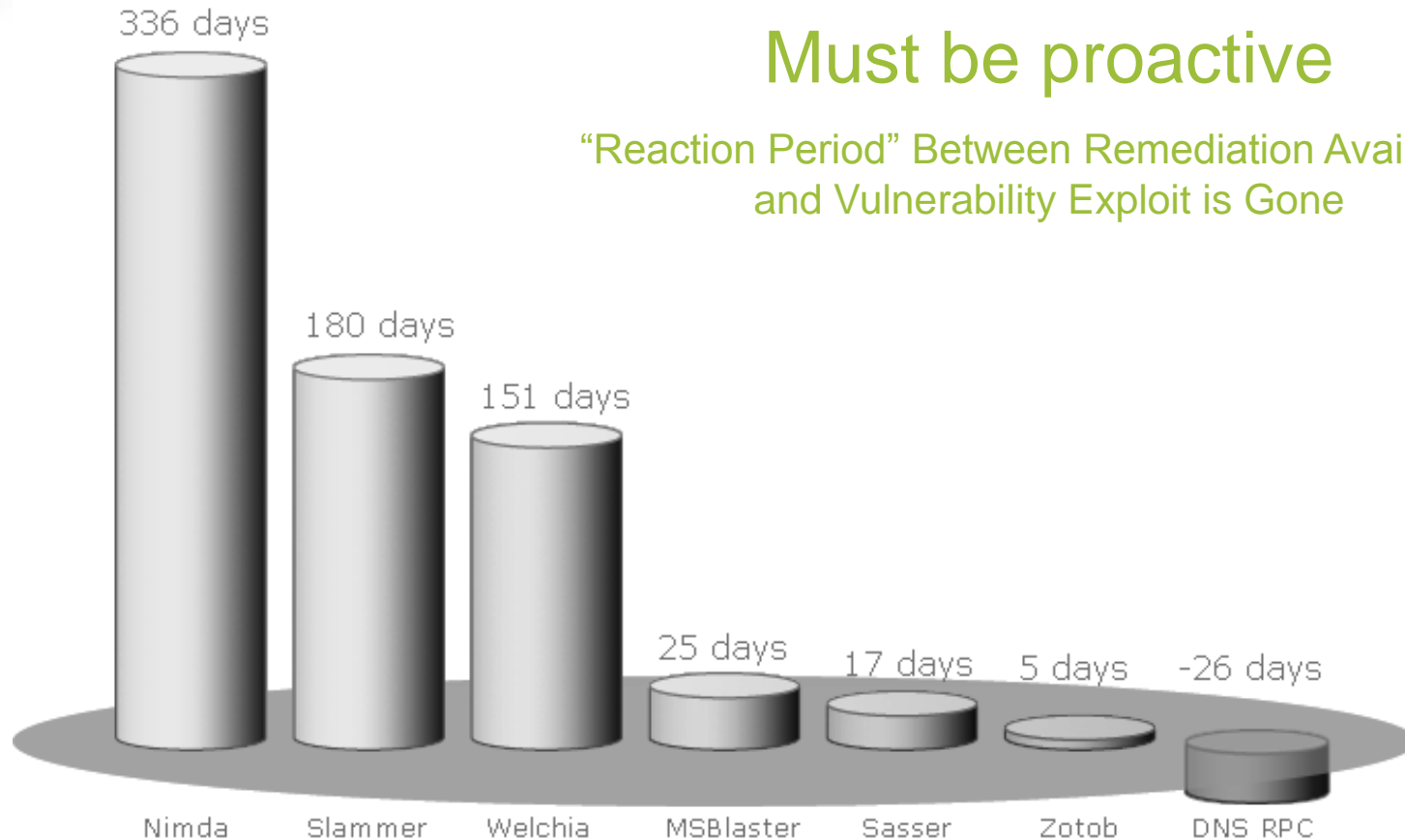


Source: National Vulnerability Database

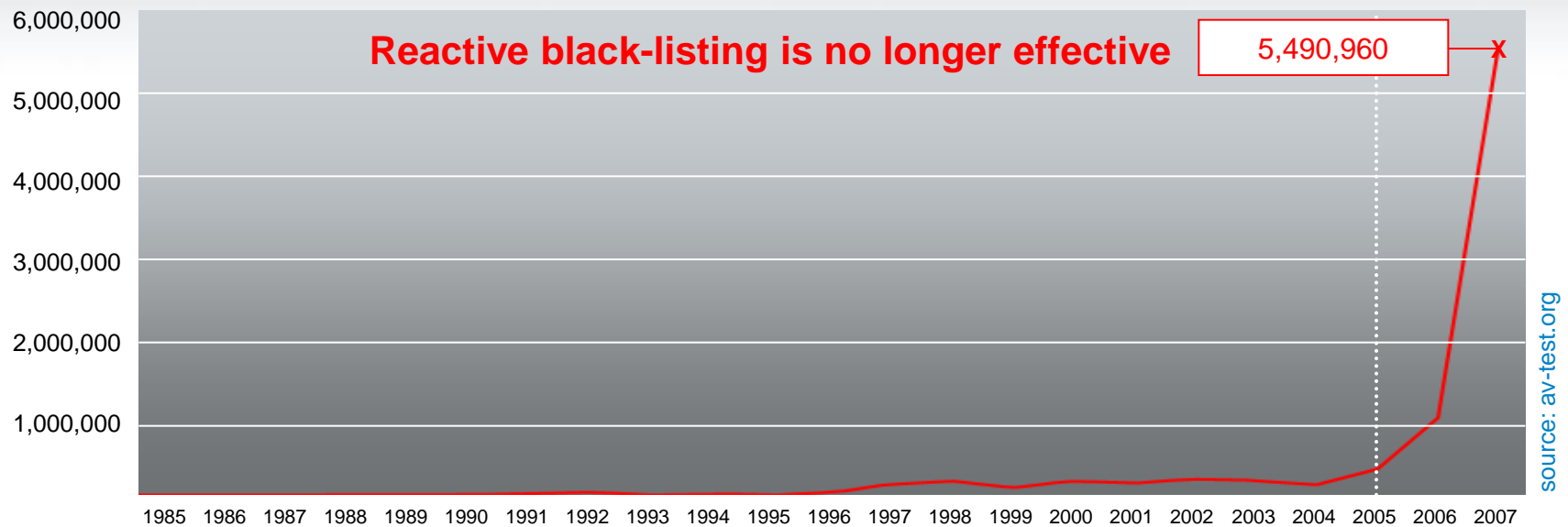
“Adobe Acrobat/Reader PDF documents can be used to compromise your Windows box. Completely!!!”

TECHWORLD

Key Challenge - Time to React is Gone



An Inconvenient Truth: Growth of Malware



Traditional endpoint technology stacks do not solve this issue:

Anti-virus / Anti-malware / Heuristics / HIPS

- Resource intensive
- Susceptible to false-positives
- Can't defend against targeted attacks
- Won't scale with current threat rate
- Do not address underlying vulnerabilities

What has changed

in today's environment that make:

Traditional Security Approaches Fail

a single USB stick worth

\$15 BILLION

and allows targeted Malware to affect even

YOUR CEO?

What has changed?

Three things have changed that make reactive security obsolete.

The
Borderless
Enterprise

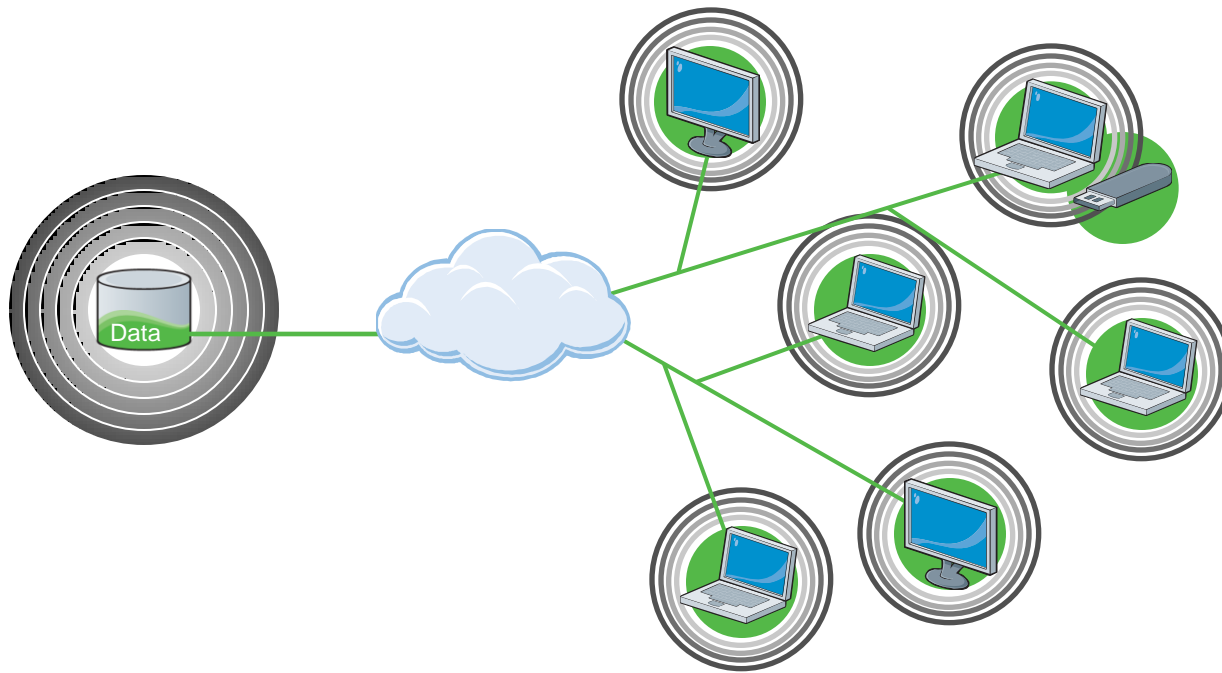
Increased
Internal
Risks

Organized
External
Threats

The Borderless Enterprise

Remote users and mobile technology.

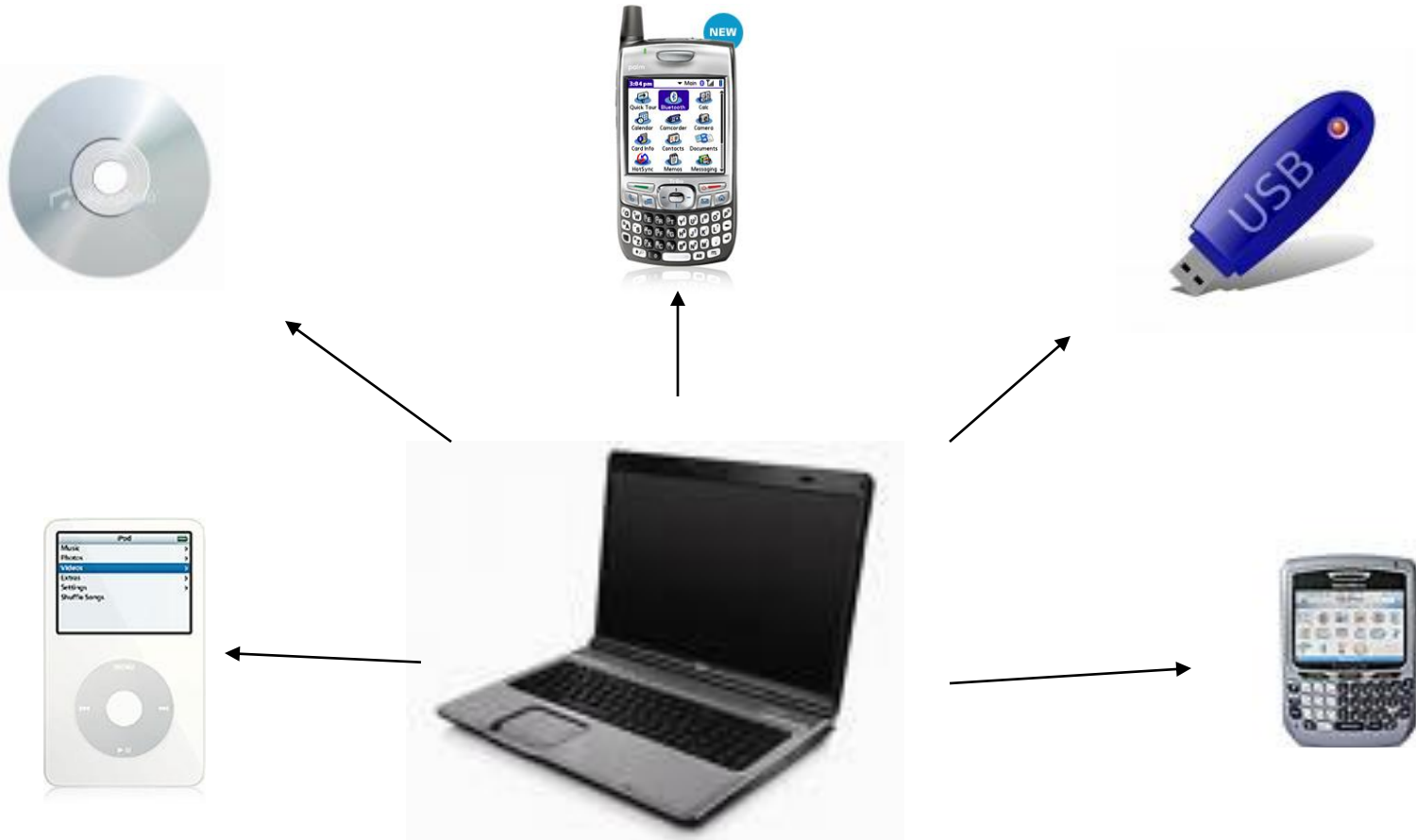
Data has moved beyond the enterprise firewall:
Laptops / Home Offices
USB Sticks / WiFi / VPN
and more...



New Technology - New Sources of Risk




Easy of Connectivity = Risk Increases

Increased Storage Capacity = Risk Increases



Evolution of Removable Media

- Removable media stores more at lower cost than ever before and fits in your pocket

Physical Size	Storage Size	Per MB Price
		

- Plug and Play offers seamless support for removable media
- Removable media is significant to daily business operations
- Professional and personal use of removable media has merged

Increasing Internal Risk

Insiders have direct access to your most sensitive data.

70% of all serious incidents are sparked by insiders.

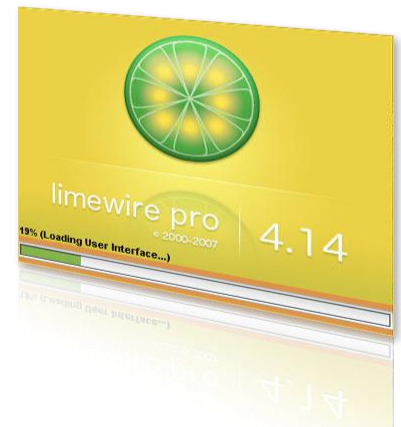
IDC Worldwide Security Products and Services
2007 Top 10 Predictions



**Lost Laptops
& Devices**



**Disgruntled
Employees**



**P2P File Sharing
Software**

48% of users utilize company tools for personal usage.

What Threat Does an Insider Pose?



- John's iPod might have 80 GB of his favorite music and video's or it might contain:
 - » software he brought from home to install
 - » malicious software, such as malware, spyware, crime ware
 - » a virus or Trojan



- When John leaves at night it might have:
 - » your customer database
 - » financial data
 - » intellectual property

53% of organizations would NEVER know what data was on a lost USB device ¹

Source:

1- Ponemon Institute, 2006 Cost of Data Breach Study

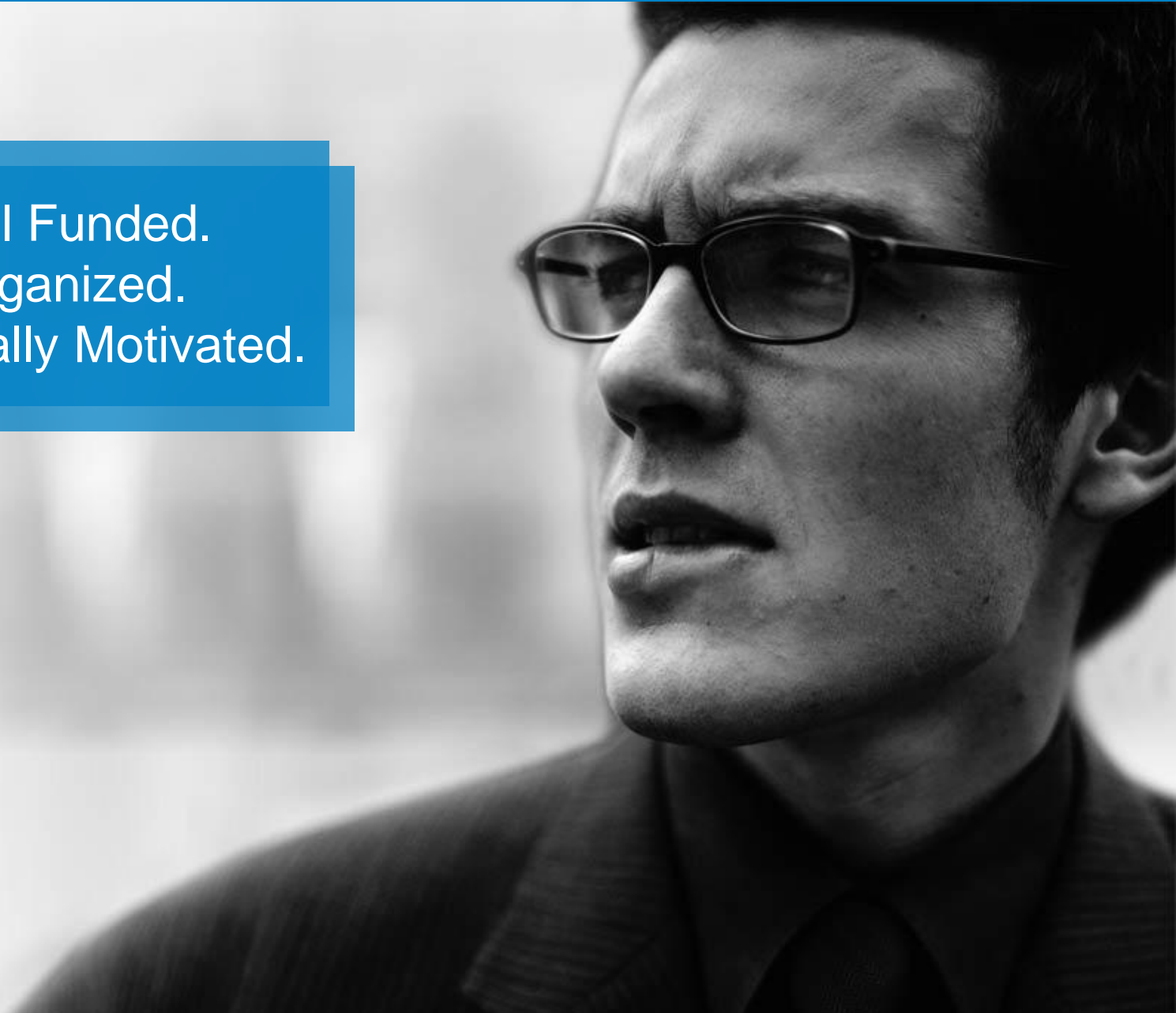
External Threats

The hackers you face
are no longer just
Gary and Wyatt...



Organized External Threats

Well Funded.
Organized.
Financially Motivated.



External Threats use Mobile Technology

Data is not just going out on Mobile Devices.

Malware coming in on Mobile Devices as Well

New form of Social Engineering

Leaving USB drives in parking lots of Targeted Companies with Malware installed

Malware in the Supply Chain

- What do these removable devices all have in common?



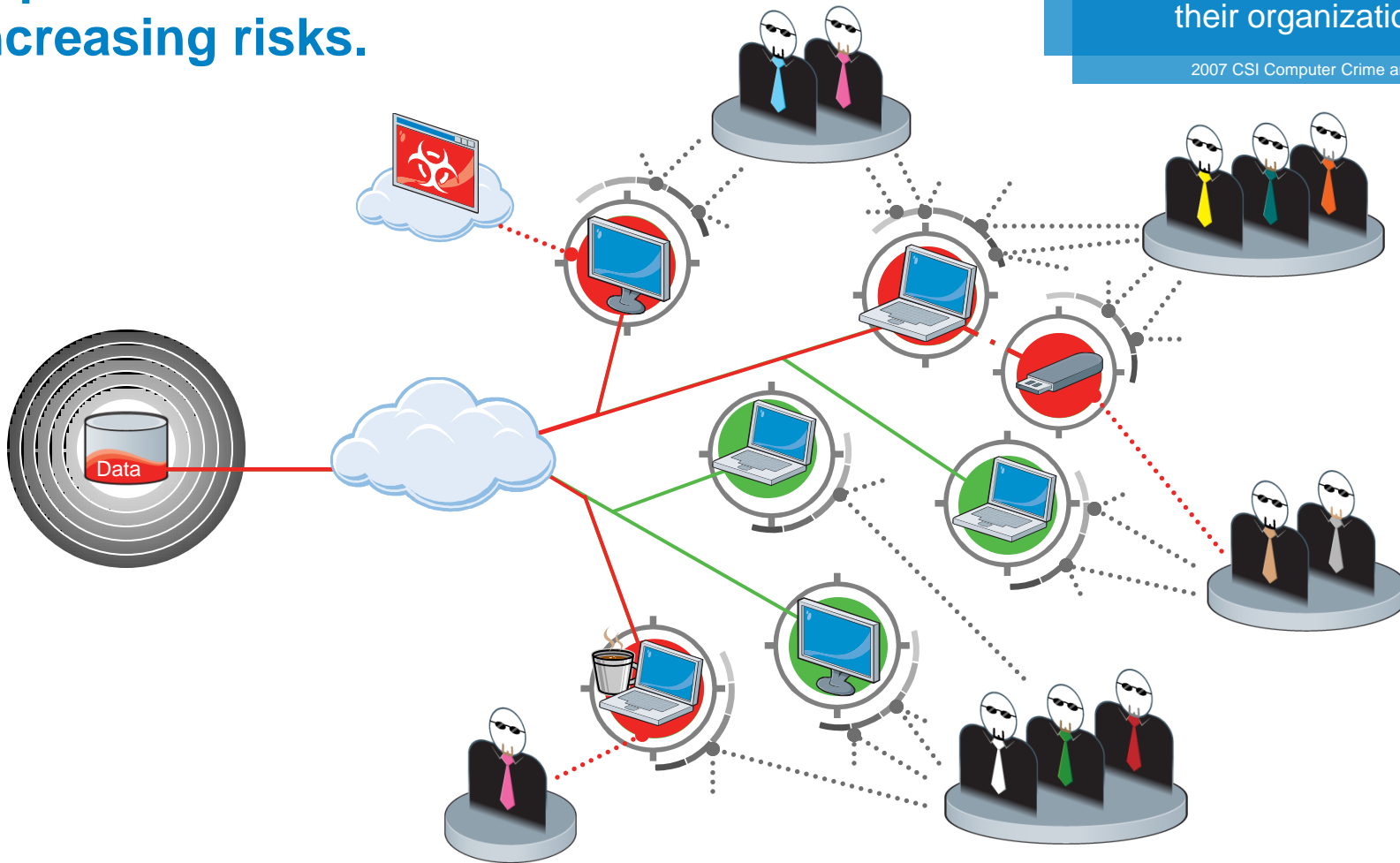
- ☐ All came pre-installed with viruses capable of stealing passwords and opening doors for hackers

The New Threat Environment

Traditional reactive security approaches fail to address increasing risks.

18% suffered a targeted attack – aimed exclusively at their organization.

2007 CSI Computer Crime and Security Survey



Data Leakage Costs On the Rise

- Data breaches remain the leading cause of financial losses ¹
- Data breach costs continue to increase ²

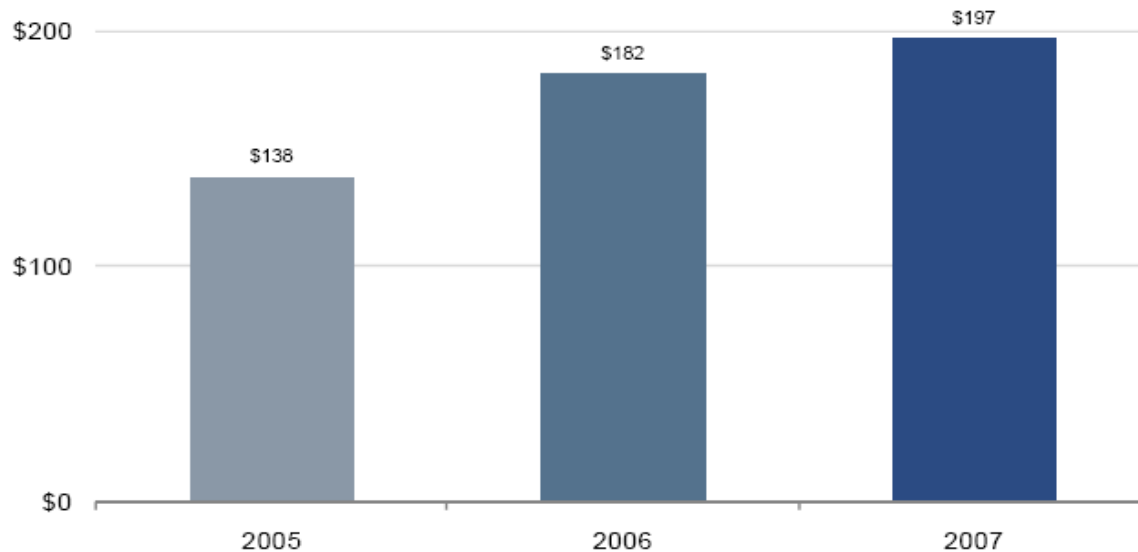


Figure 1: Average per-record cost of a data breach, 2005–2007

Source:

1 - 2006 CSI/FBI Computer Crime and Security Survey

2 - Ponemon Institute, 2007 Cost of Data Breach Study

Data Leakage Can Amount to Lost Business

- Lost business accounts for 65% of data breach costs

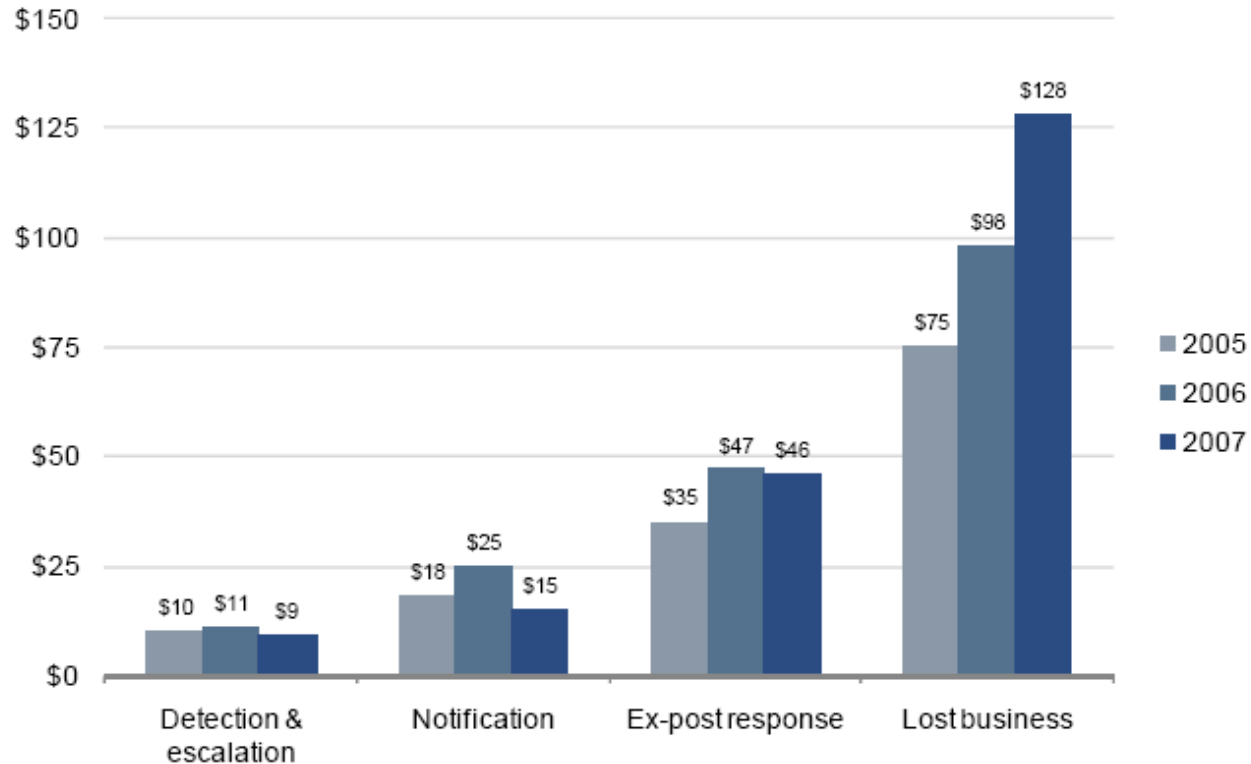


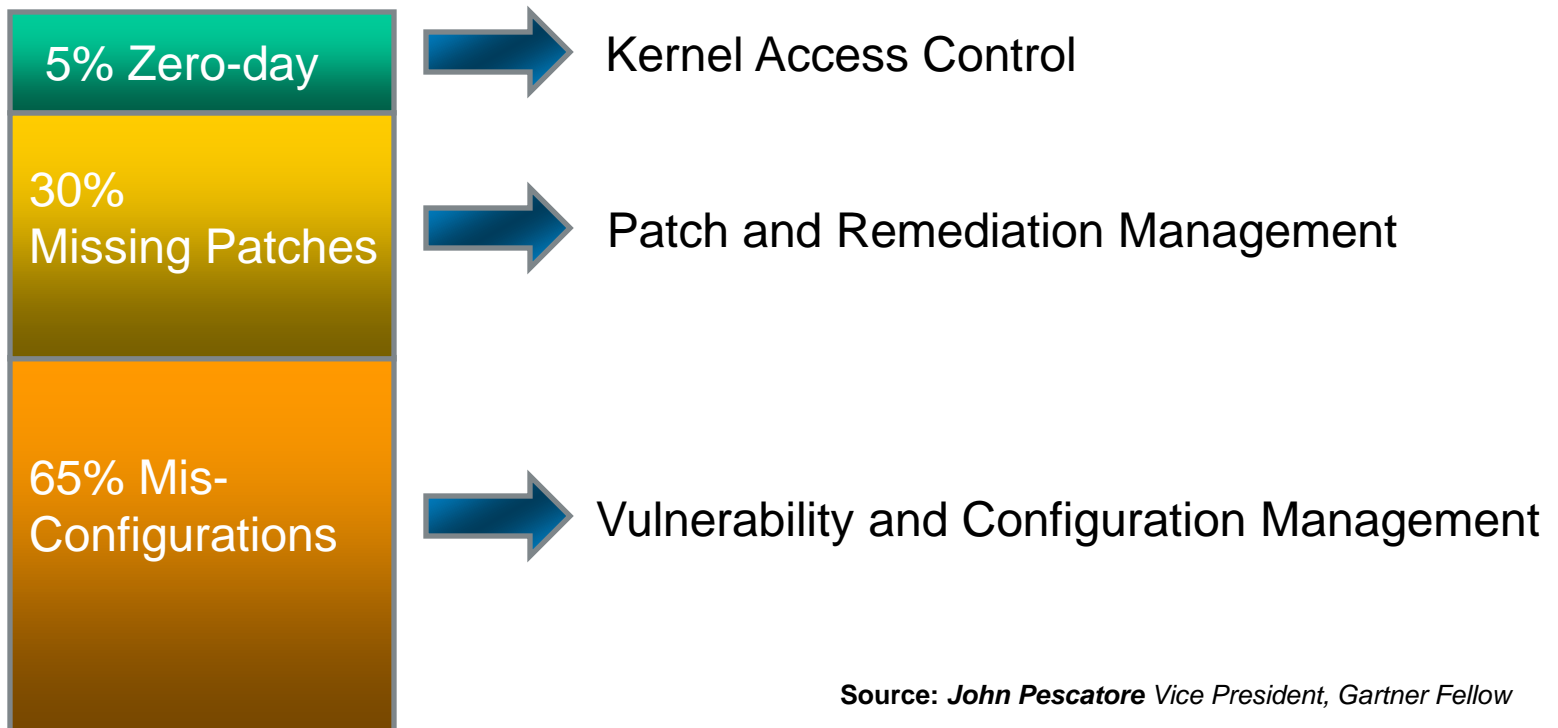
Figure 2: Data breach costs by center per record compromised, 2005–2007

Source:
Ponemon Institute, 2007 Cost of Data Breach Study

**How do you address
the new security challenges
in today's environment?**

Areas of Risk at the End Point

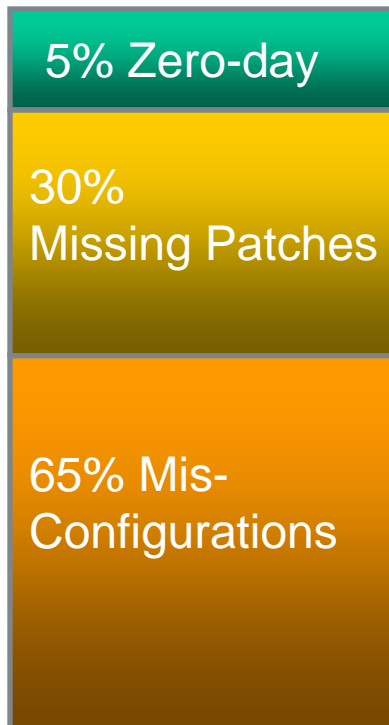
Attacks Exploit
Risks at the Core



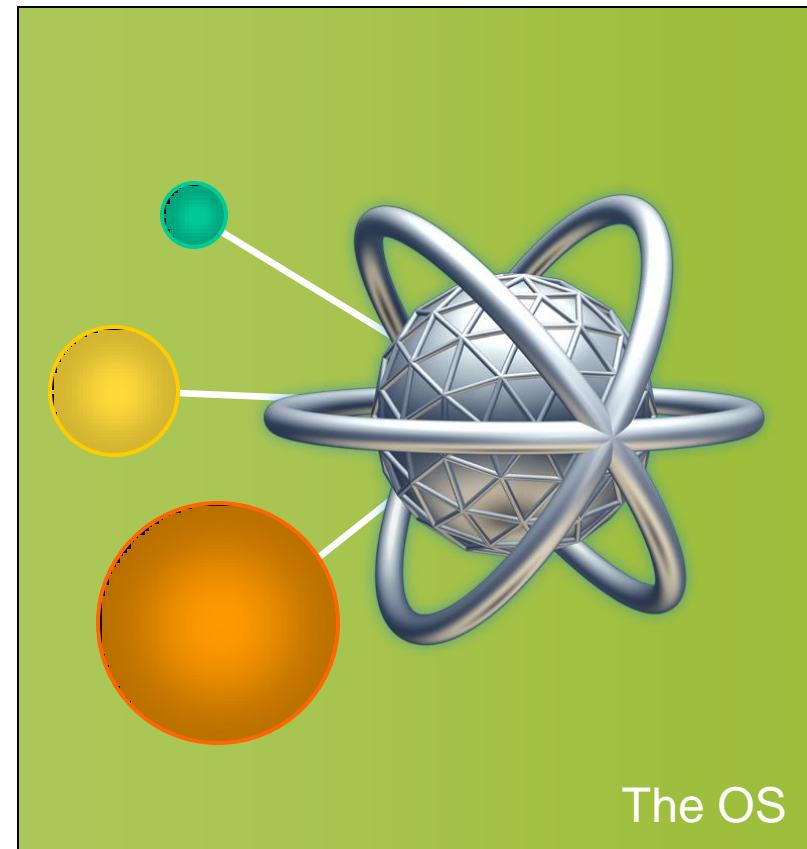
Source: *John Pescatore* Vice President, Gartner Fellow

Outside Threat Protection

Attacks Exploit
Risks at the Core



The OS / Sources of Risk



UPC – Traditional Approaches

Traditional Depth in Defense Security Add-on Solutions

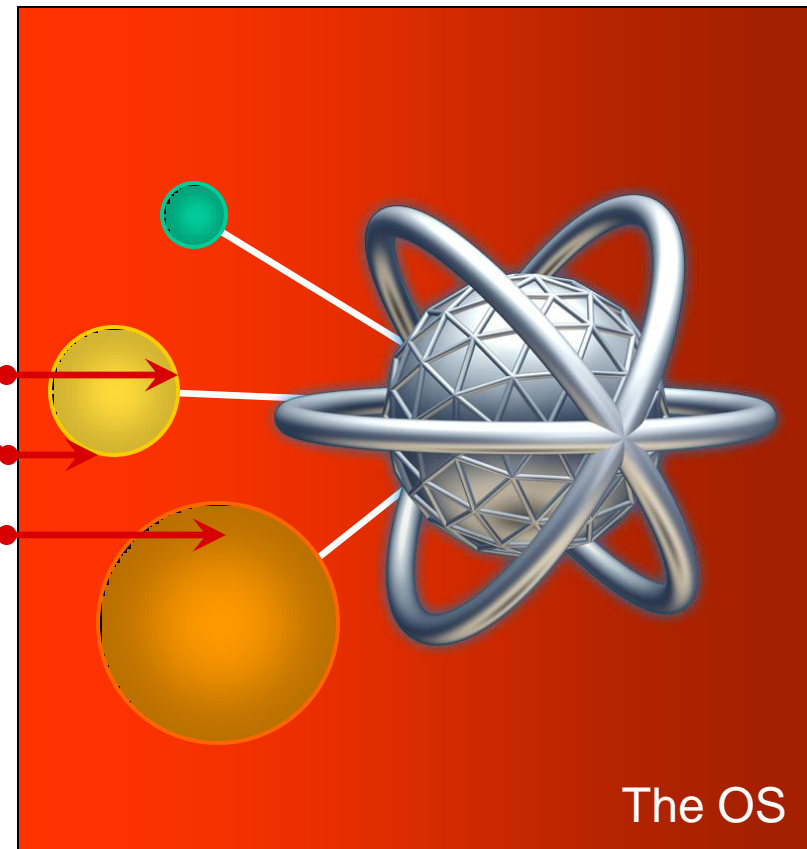
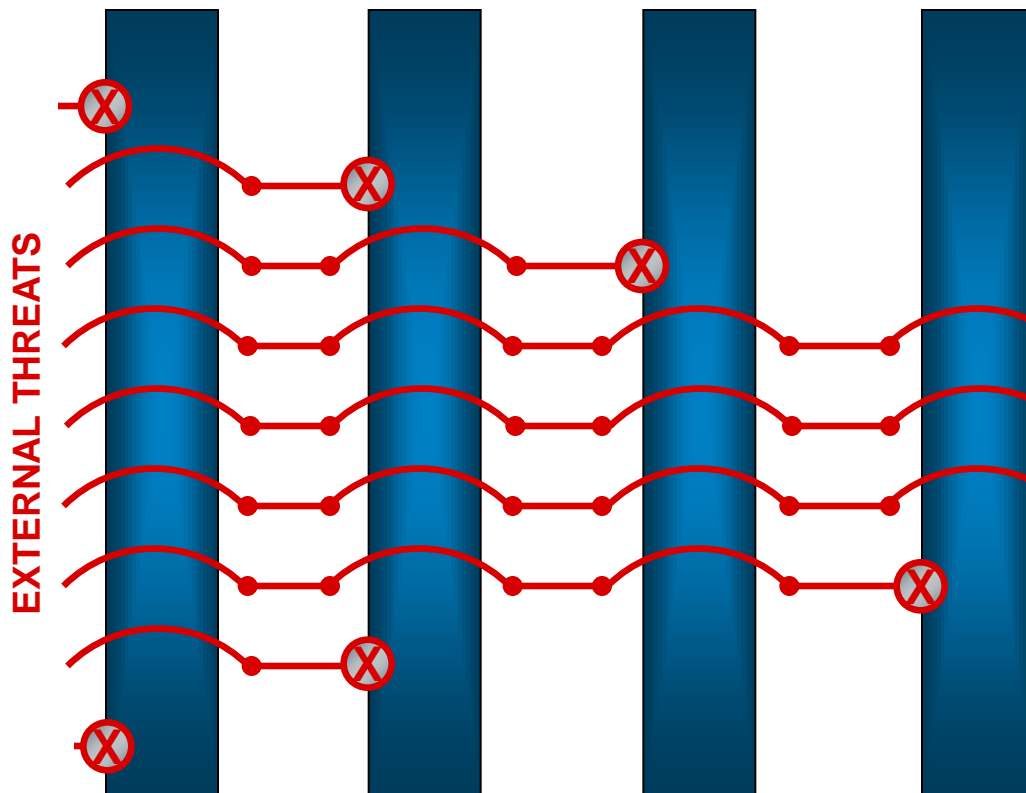
The OS / **Sources of Risk**

Desktop
Firewall

Anti-Virus
Spyware

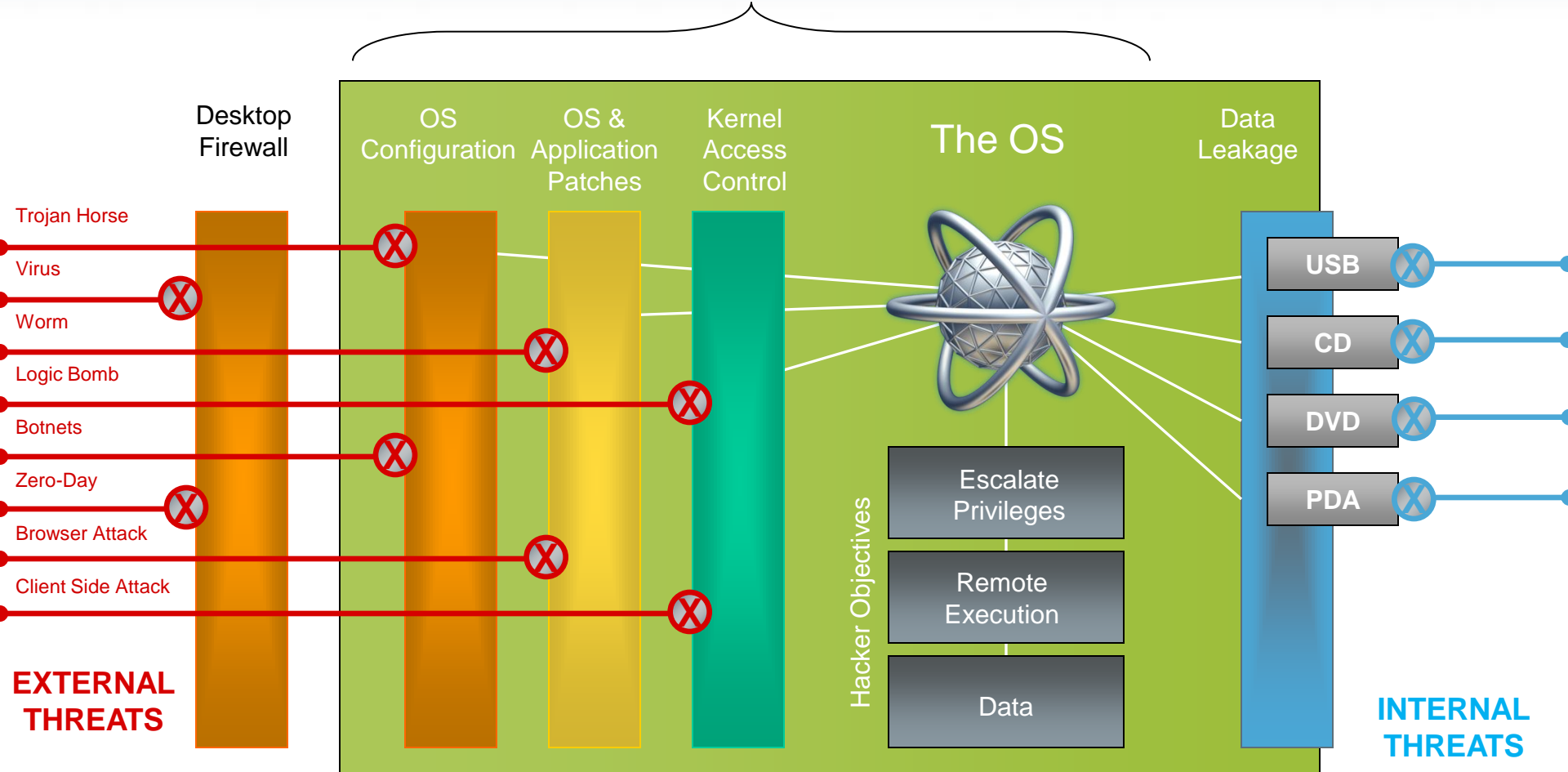
IPS
Heuristics

Application
Blacklist



Proactive, Operational End Point Security Approach

Defense in depth



Proactive, Operational Endpoint Security Solution

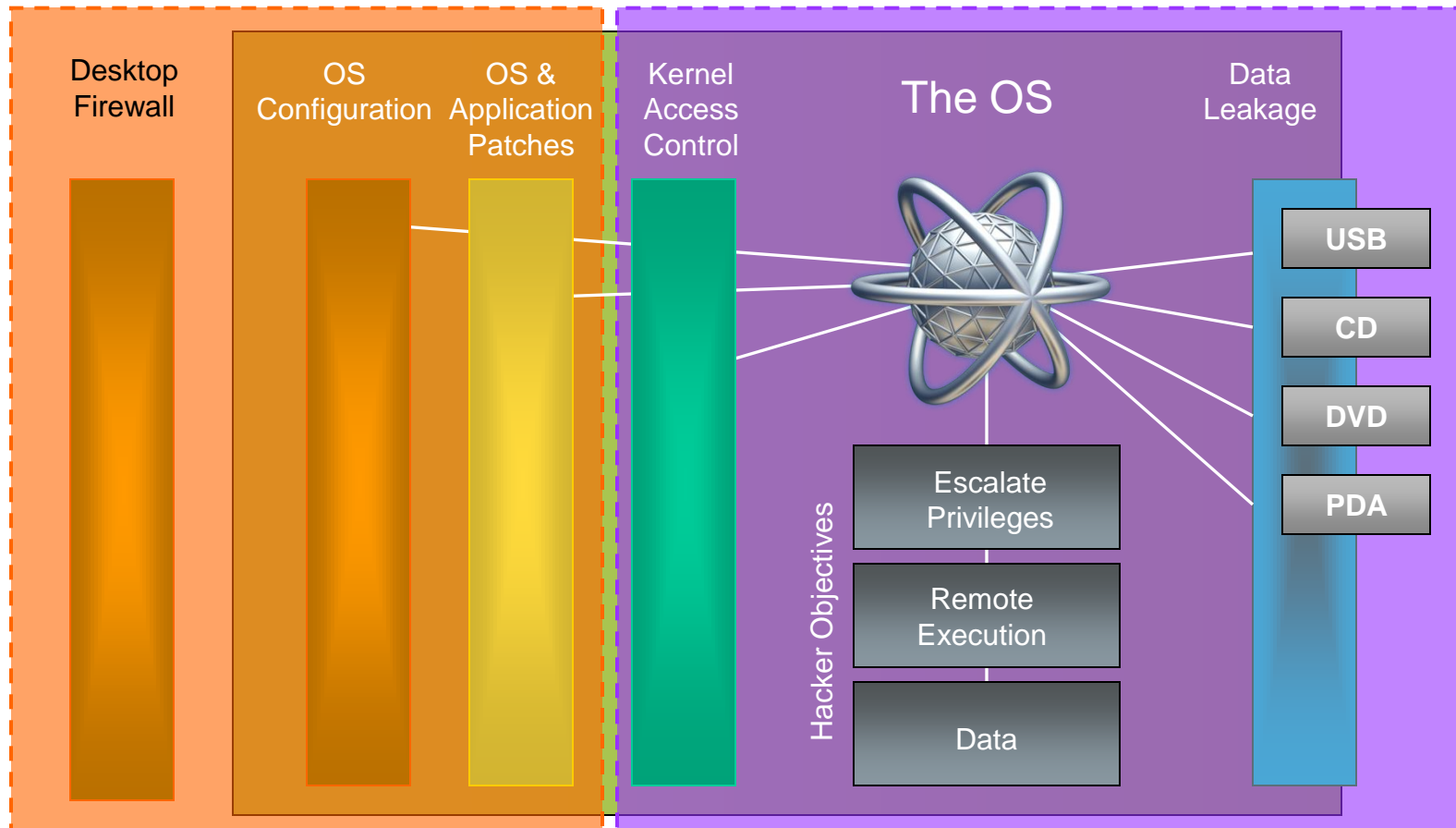
Approach

PatchLink Suite

Scan / Security Configuration Management / Update

Sanctuary Suite

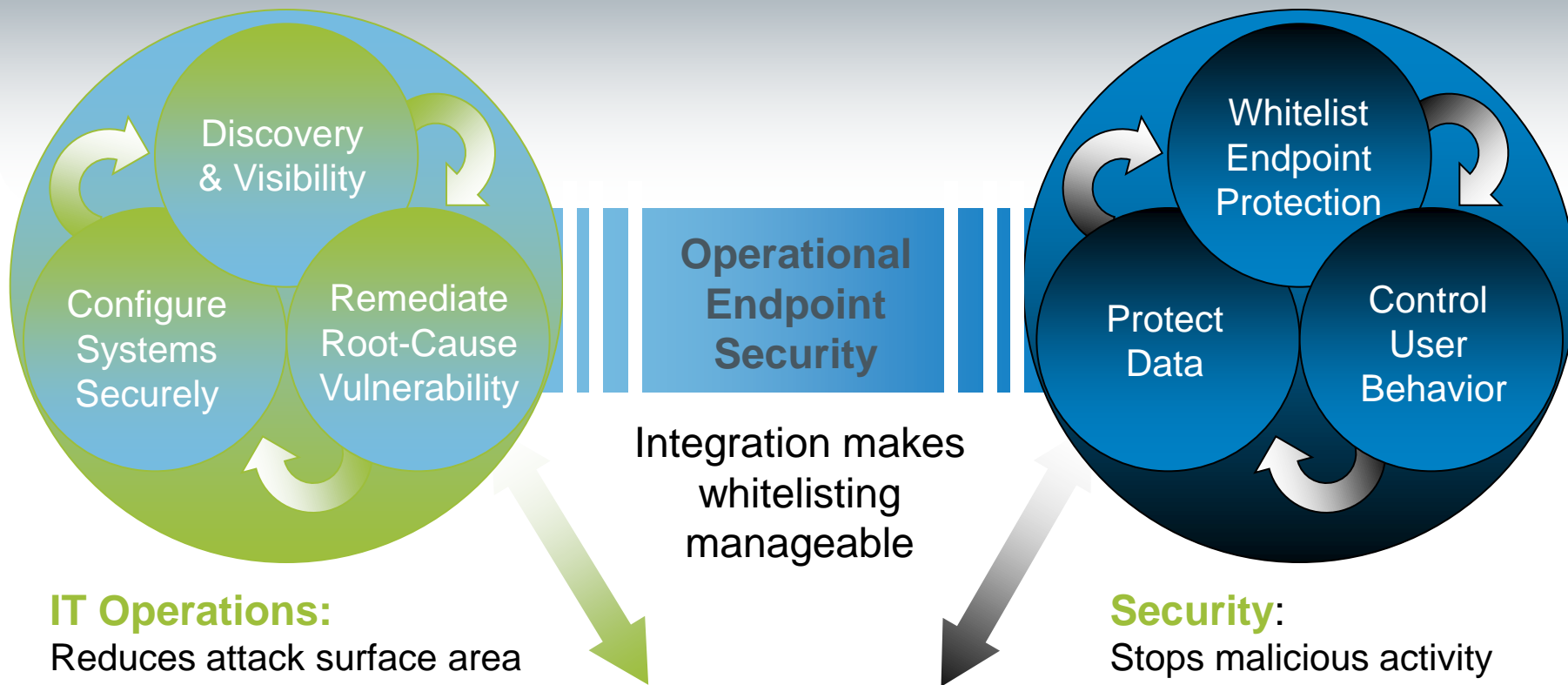
Application Control / Device Control



**YOU HAVE TO
Get Proactive.**

Lumension's Operational Security Approach

Policy Compliance Reporting



Integration = maximum security, flexibility and productivity

The Lumension Advantage

**Stops Targeted Attacks
Eliminates Insider Threats
Prevents Data Loss
Defends Against Zero-Day Exploits**

Shrink the Target



Operational Security Management

Enables proactive discovery, assessment, remediation and secure configuration



Vulnerability
Assessment

Patch
Management

Security
Configuration
Management

- ▣ Provides complete visibility of your risk posture through continuous discovery and vulnerability assessment
- ▣ Delivers real time patching and remediation with ongoing validation
- ▣ Reduces Endpoint Risk by Fortifying OS and Application Configurations

Shrink the Target / Stop the Bullets



Data Security

Protects data from theft or loss.



Device Control

Whole Disk
Encryption

Data Leakage
Prevention

- ❏ Controls the flow of data to devices
(inbound and outbound data including port access)
- ❏ Encrypts data (moved onto removable devices)
- ❏ Detailed forensics and auditing
(of data moved to / from a device)
- ❏ Enables Compliance
(Data Protection Regulations and Standards)

Stop the Bullets



Endpoint Security

Defines trusted applications and denies all unknown, unauthorized and malicious threats.



Application
Control

Device
Control

- ▣ Allows only explicitly authorized application to execute
- ▣ Prohibits unwanted or illegal applications to install or run
- ▣ Prevents unwanted or unmanaged removable devices to introduce malicious code

Continuous Monitoring and Reinforcement



Security Compliance Reporting

Reduces the cost of compliance management while providing enterprise-wide visibility over your security environment.

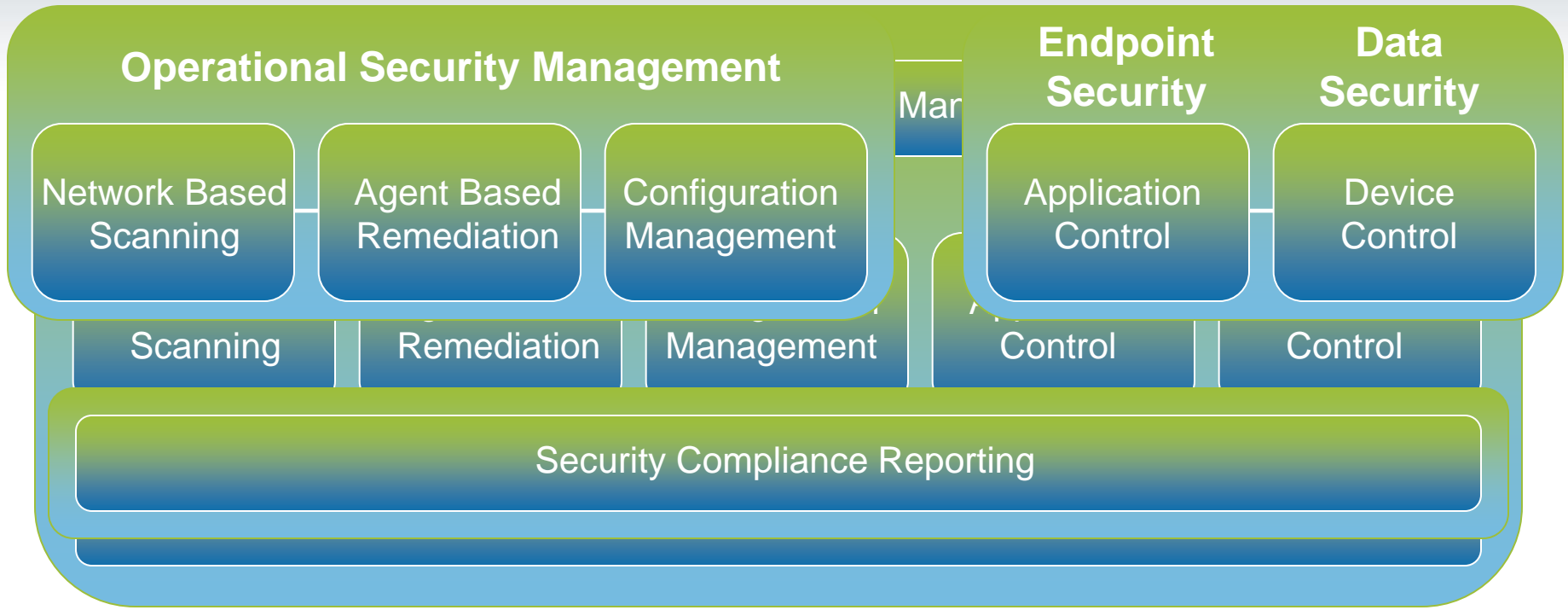


- ▣ Aggregates and centralizes security configuration states for actionable reporting
- ▣ Enables continuous audit-readiness
- ▣ Facilitates compliance reporting and checks with security regulations or standards

Enterprise
Reporting

Security
Configuration
Management

Lumension Proactive Security Approach



Superior Security:

Scalable / Greater Enterprise Visibility

Improved Productivity / Lower TCO

The Lumension Advantage

**Stops Targeted Attacks
Eliminates Insider Threats
Prevents Data Loss
Defends Against Zero-Day Exploits**

Get Proactive.



Check out Lumension's
Proactive Security Solutions.

or visit us at lumension.com

Removable Media Has Legitimate Business Use



- Every device isn't there to harm you, John might need a...

- » USB drive

- to easily move large files
- to take work on the road with you
- it lets him modify files, unlike burning the files to a cd/dvd's
- he might carry a “toolkit” with him to support other users
- he can use it to backup data

- » iPod's

- to watch a video training
- to listen to a company podcast
- to listen to a class he is taking



Rethink Your Policies

- Organizations need to ask themselves...”do we need to allow access to these devices?”
- If yes,
 - » Who should have access – everyone, specific groups or users
 - » What devices should be allowed – usb drives, mp3 players, etc.
 - » When should access be allowed - 24/7, Mon. - Fri., 9 to 5
 - » Where should they be used – every machine or specific machines
 - » How should they be used – read only or read/write permission
- If not, how are you going to deny access to the devices

Policy Enforcement

- How would you control these devices?
 - » Order machines without USB ports
 - » Physically blocking the USB ports
 - » Disabling the USB ports in the Bios
 - » Disable the USB ports in the registry
 - » Ban portable storage devices
 - » Use a software based tool to control access
 - » Do nothing

Four Steps to Reduce Risk While Enabling New Technologies

- **Discovery**
Know what applications and devices are in use on endpoints
- **Policy Establishment**
Develop company-wide, group and/or user-specific policies that reduce, or eliminate endpoint security issues
- **Policy Enforcement**
Enforce and administer endpoint security policies and the flexibility to seamlessly make policy changes as appropriate, reducing end users' need for involvement
- **Policy Monitoring and Compliance Reporting**
Understand the effectiveness of endpoint policies and to know when they have been violated

Thank You.
Please contact me at:
carlos.sanz@lumension.com for any questions you
might have



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