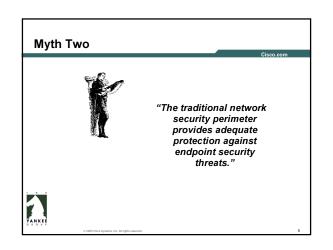
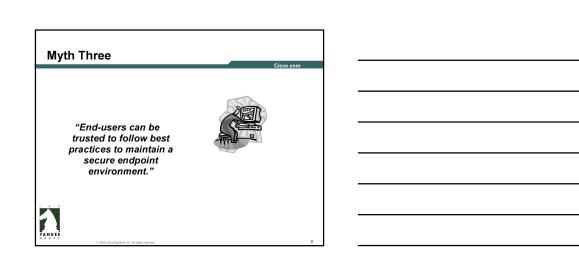
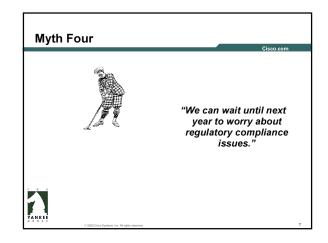
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THE PRICE OF ADMISSION	
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Agenda	
• The Myths of Endpoint Security	
The Endpoint Security Problem	
Compliance Enforcement as a Best Practice	
Standards and Initiatives	
Vendor Approaches in Market	
• ROI with Endpoint Security Enforcement	
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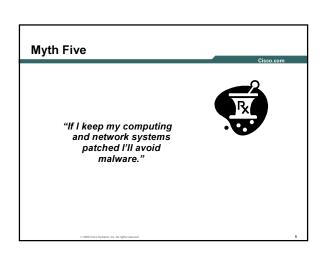
• ROI with Endpoint Security Enforcement

# "IT can and should restrict the types of users, endpoint platforms, and access technologies that may connect to the enterprise network."









## Agenda The Myths of Endpoint Security The Endpoint Security Problem Compliance Enforcement as a Best Practice Standards and Initiatives Vendor Approaches in Market ROI with Endpoint Security Enforcement

## Yankee Group Recommendations

• Embrace the inevitable

Your perimeter will get more porous

Attacks on endpoints will get more sophisticated

Your perimeter won't stop endpoint-borne attacks

You will have to enforce endpoint security policy

Don't wait too long to act

Regulatory issues, rogue threats are here now



## **Enterprise Perimeter – Extended and Diluted**

Weak security practices and enforcement for dynamic workforce

- "Easy access" at odds with "secure network"
- Persistent security vulnerabilities on complex endpoints

"Re-infection from worms, viruses and trojans are most often caused by remote users who have not protected their machines with the most up-to-date security patches and signatures."

Endpoint Security Management, Maximizing Best-of-Breed, IDC, 2004

## WORST OUTBREAKS EVER

Name, Year Worldwide Impact

1. Love Bug, 2000 \$8.75 billion

\$4.75 billion 2. **MyDoom,** 2004 \$3.5 billion 3. Sasser, 2004 \$3.5 billio German cybercops nab its teenage author, Sven Jaschan. An IT security firm then offers him a job.

\$2.75 billion ses itself as a Harry Potter 4. NetSky, 2004

5. **SoBig**, 2000 **\$2.75 billion**Hits a week after Blaster (No. 8), helping cause a summer of pain for computer users and Microsoft.

## Agenda

- The Myths of Endpoint Security
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## There's Got To Be A Better Way Cisco.com New approach to meet coordinated, automated threats Assess, achieve, and report on security policy compliance

 Coordinated enforcement of OS security patches, security applications, and endpoint configuration

"By the first quarter of 2005, enterprises that don't enforce security policies during network login will experience 200% more network downtime than those that do."

Scan, Block and Quarantine to Survive Worm Attacks, Gartner Group, 2004

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## Rogue Devices

Contractors / Vendors / Customers / Students / Outsiders

Cisco com

### ISSUE

Inability to control network admission exposes significant risk

Accidental or malicious in nature

May lead to network downtime or exposure of sensitive information

## • SOLUTION:

Allow only authorized devices onto the network

Provide enforcement by leveraging existing network infrastructure Maximize existing hardware and software investments Enable an easy path to emerging enforcement technologies

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## Mobile Users

Home Workers / VPN

Cisco.com

### • ISSUE

## Trusted User but Untrusted Device Problem

VPN secures the path, but the endpoint device exposes risk Intruders and malware can enter the corporate network through compromised VPN endpoints

## • SOLUTION:

Prior to network admission assure that even untrusted devices comply with corporate policy

Fill the missing link: assesses endpoint security software before gaining access

Leverages existing investments

Enable flexible machine utilization (home, privately-owned)

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## LAN Desktops **Devices with Persistent Connectivity** • ISSUE: Numerous difficult to manage devices in an unknown state present significant risk May be an entrance vector for intruders and malware Facilitates rapid re-infections making clean-up extremely difficult SOLUTION: Prior to network admission assure that all devices comply with corporate policy Continuous re-evaluation to ensure devices comply with policy Leverage existing investments with minimal network changes Enable an easy implementation path to emerging enforcement technologies Agenda • The Myths of Endpoint Security • The Endpoint Security Problem Compliance Enforcement as a Best Practice Standards and Initiatives Vendor Approaches in Market • ROI with Endpoint Security Enforcement **Evolving Market Standards and Initiatives** • IEEE 802.1X Standard Low-level network protocol Enables VLAN-based enforcement & quarantine in switches and wireless access points Available today in modern network gear from all major vendors · Cisco Network Admission Control (NAC) Program API-level enforcement & quarantine technology being built into Cisco network infrastructure Available in phases through 2005 Multiple vendors in program announcing support for program

## **Evolving Market Standards and Initiatives**

Cisco.com

### · Microsoft Network Access Protection (NAP)

API-level enforcement & quarantine technology in Microsoft Windows Operating Systems

Available in Longhorn, 2007 (4Q 2005 Beta)

Multiple vendors in program announcing support

## · Trusted Computing Group (TCG)

Creating TNC (Trusted Network Connect) Standard Multiple API-level interfaces Very early stages

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## **Enforcement Alternatives**

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	Appliance	ActiveX / Java	Agent
Assessment	Client Log-in	Downloadable ActiveX control	Endpoint Agent
Quarantine	Proprietary VLAN	SSL Gateway	Industry Standard RADIUS, 802.1x
Industry Perspective	Point Solution	Point Solution	Cisco NAC Microsoft NAP Trusted Computing Group
Supported Use Cases	SMB LAN	SSL VPN	Road Warrior Weekend Warrior LAN Dweller Rogue

## Agenda

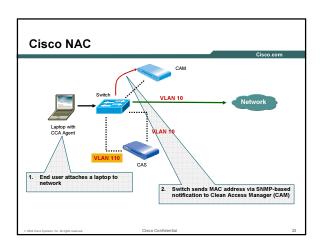
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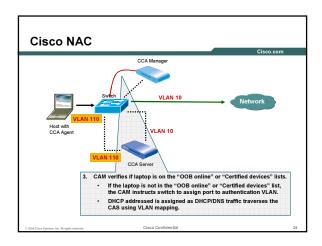
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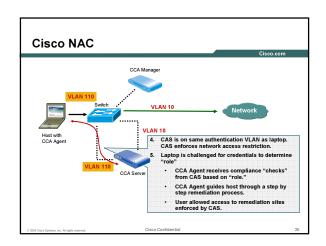
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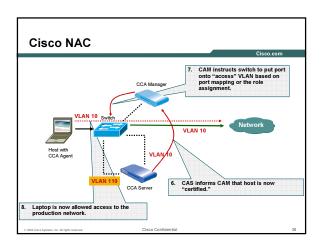
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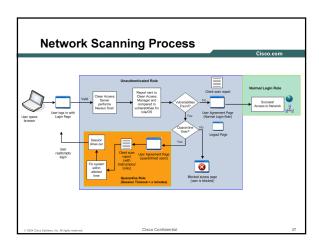


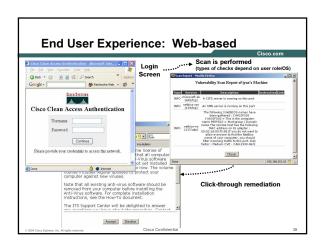


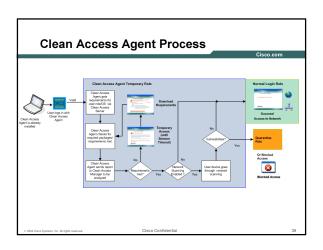






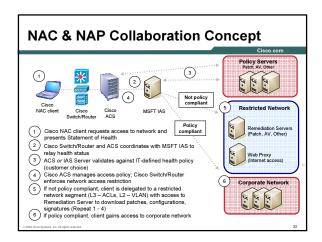


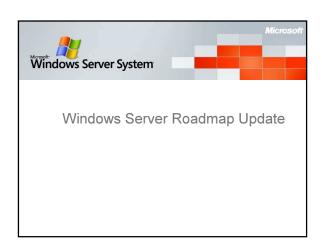






## Microsoft / Cisco Joint Announcement October 18, 2004 Cisco com Microsoft Cisco and Microsoft Team to Improve Network Security Companies will work toward compatibility, interoperability of respective security architectures This month the two companies announced they will work together to ensure compatibility and develop interoperability between their respective security architectures. For Cisco this collaboration further demonstrates the company's commitment to reinventing network security. Interoperability Integration Standardization





## Windows Server Security Updates SP1 New features like Security Configuration Wizard drawing raves from users New wave of security guidance now available for Windows Server and XP SP2 Windows Update Services Beta in November Network Access Protection VPN Quarantine in Windows Server 2003 SP1 & R2 Industry partnership momentum continues

## Microsoft — Cisco NAP Collaboration Long-term agreement to share plans and integrate network security and health assurance technologies around Microsoft's Network Access Protection (NAP) and Cisco's Network Admissions Control (NAC) Benefit is that mutual customers will be able to better address the increased threat and impact malicious software Cisco and Microsoft will collaborate on three key deliverables: Ensure compatibility between Cisco NAC and Microsoft NAP Drive interoperability efforts between their two architectures as these solutions evolve and are delivered to customers Lead industry standards in the network admissions and access control arenas to help promote broad market adoption and integration with industry leading ISV solutions. Gives customers what they've asked us for: a more integrated Cisco/Windows solution

## The Myths of Endpoint Security The Endpoint Security Problem Compliance Enforcement as a Best Practice Standards and Initiatives Vendor Approaches in Market ROI with Endpoint Security Enforcement

## What To Expect In A Solution

Cisco co

· Maximize Current Security and Network Investments

Vendor neutral architecture that provides the ability to work with current Network Infrastructure and Endpoint Security Elements Minimal (if any) network changes

Avoids technology "lock in" as networks change and evolve

· Low Total Cost of Ownership

Low Administrative Overhead – Easy to implement and maintain Centralized definition, management and reporting of enforcement and quarantine policy

· Support Multiple Enforcement Mechanisms

Supports Migration to Industry Standards When Available (NAC, NAP, TCG, Etc.)

Remote and LAN Based – IPSec VPN, SSL VPN, Dial, 802.1X, DHCP, and Client  $\,$ 

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## Where is the ROI?

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- Maximize ROI on existing patch management, anti-virus, personal firewall and network infrastructure elements
- · Lower costs of remediating and patching infected endpoints
- Lower costs of network infection by immediately responding to new virus and worm attacks
- Increases workforce productivity through safe and secure remote access to networks through VPN and Wireless access
- Increase security of the network and corporate information and resources
- · Increase compliance with IT governance regulations

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Q and A

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