Creating A Culture of Security and Privacy in the Digital Age

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People Drive Business Success

Microsoft Office Communication

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Petter Decisions, Faster Results

Processes & Information

Situation



- Computers worldwide: 663 million¹
- Web users worldwide, 2004: 719,334,756, double the 2000 total²
- E-mails: 31 billion, est. 668,000 TB³
- Nature of "mission-critical" computing is changing
- Nobody expected the massive, sudden organic growth of the Internet
- Global interaction, speed of business has increased
- Malicious use of Web growing in quantity, sophistication
- User perception cannot be shifted by one group
- Computing has not achieved trust level of other established technologies

1 Computer Industry Almanac, 2003 2 Nielsen/NetRatings, Feb. 2004 (cited on InternetWorldStats.com) 3 School of Information Management and Systems, U. California-Berkeley, 2003

A Complex Situation

40M credit cards hacked

Breach at third party payment processor affects 22 million Visa cards and 14 million MasterCards. June 20, 2005: 3:18 PM EDT By Jeanne Sahadi, CNN/Money senior writer



Britain warns of major e-mail attack

Hackers seen aiming at government, corporate networks

The Associated Press Updated: 1:42 p.m. ET June 16, 2005



In 2004, 78% of enterprises hit by viruses, 49% had laptops stolen, 37% reported unauthorized access to information

--2004 CSI and FBI Computer Crime and Security Survey

Trustworthy Computing

 Secure against attacks

Security

- Protects confidentiality, integrity of data and systems
- Manageable

- Protects from unwanted communication
- Controls for informational privacy
- Products, online services adhere to fair information principles

- Predictable, consistent and available
- Easy to configure and manage

Reliability

- Resilient
- Recoverable
- Proven

 Open, transparent interaction with customers

Business

Practices

- Industry leadership
- Embracing of Open Standards

Microsoft's Security Focus Vision

Trustworthy solutions for secure software and services with tools and guidance to keep customers safe

Technology Investments

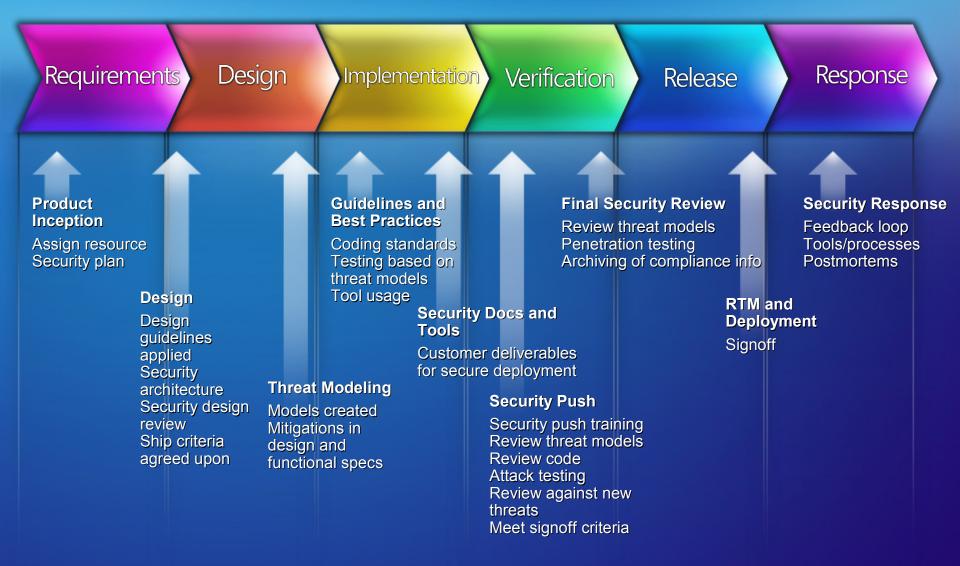
Prescriptive Guidance Industry Partnership

Excellence in fundamentals

Security innovations

- Scenario-based content and tools
- Authoritative incident response
- Awareness and education
- Collaboration and partnership

Security Development Lifecycle



Improving the Experience

Microsoft Windows Xp Service Pack 2

- Over 218 million copies distributed
- 1/3 fewer vulnerabilities; 1/2 the # of criticals
- 13-15 times less likely to be infected by malware

Microsoft Windows Malicious Software Removal Tool

- Over 1 billion total executions
- Focus on most prevalent malware
- Dramatically reduced the # Bot of infections

Microsoft[®] Windows Anti<mark>Spyware</mark> Beta

- Over 21 million downloads
- Tens of millions spyware packages removed
- Great feedback from SpyNet participants

Advanced Software Updating

- WSUS, Microsoft Update and MBSA 2.0
- Single detection and installation infrastructure
- Greatly simplified and consistent experience

Government Learning: IT Security Strategies and Tactics

Admin Access

Identify Threats and Assess Risk Mitigate risk to the infrastructure through implementation of four key strategies Secure the Secure the Enhanced **Secure Key** Network **Network** Monitoring Assets Perimeter and Auditing Interior Eliminate Weak Automate Network Intrusion Secure Wireless **Passwords Vulnerability Scans** Detection Smart Cards for RAS Acct Segregation Managed Source Automate Security Secure Remote User Patch Management Code **Event Analysis** Network Messaging Firewall Secure Environmental Segmentation Secure Extranet and Remediation Smart Cards for

Partner Connections

Our Recommendations Steps to a trusted government infrastructure

- Develop security & privacy policies
- Review configuration and manageability strategy
- Build a sustainable patch management strategy
- Build an aggressive migration strategy
 - Evaluate and deploy Windows XP & SP2
 - Upgrade Internet facing servers to Windows Server 2003
- Conduct regular reviews and audits
- Build a flexible security and privacy response plan

Security Timeline

- Microsoft Baseline Security Analyzer (MBSA) v1.2
 - Virus Cleaner Tools
 - Systems Management Server (SMS) 2003
 - Software Update Services (SUS) SP1
 - Internet Security and Acceleration (ISA) Server 2004 Standard Edition
 - Windows XP Service Pack 2
 - Patching Technology Improvements (MSI 3.0)
 - Systems Management Server 2003 SP1
 - Microsoft Operations Manager 2005
 - Windows malicious software removal tool
 - Windows Server 2003 Service Pack 1
 - Windows Update Services
 - ISA Server 2004 Enterprise Edition
 - Windows Rights Management Services SP1
 - Windows AntiSpyware
 - System Center 2005
 - Windows Server 2003 "R2"
 - Visual Studio 2005
 - Vulnerability Assessment and Remediation
 - Active Protection Technologies
 - Antivirus

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Prior

New Windows Vista Security

Stay More Secure

- Anti-malware
- Restart Manager
- Client-based Security Scan Agent
- Fine-grained Audit Control

Communicate More Securely

- Network Access Protection
- Inbound/outbound firewall
- PnP Simple Smart Cards
- Pluggable Crypto

Run More Securely User Account Protection

- Browser Anti-Phishing and Low-rights IE
- Windows service hardening

Start More Securely

- Hardware-based Secure Startup
- Full Volume Encryption
- Code Integrity

Commitment

Security Development Lifecycle
 Continue to strengthen resilience to attack
 Continue standardization of internal development and quality assurance processes
 Best practices evangelism of development

- tools to customers and partners
- Develop privacy enabling technologies, expand privacy outreach
- Collaboration with industry, academia and governments

Resources

General

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XP SP2 Resources for the IT Professional http://www.microsoft

Security Guidance Center http://www.microsoft.com/security/guidance

Tools http://www.microsoft.com/technet/Security/tools

How Microsoft IT Secures Microsoft http://www.microsoft.com/technet/itsolutions/msit

E-Learning Clinics https://www.microsoftelearning.com/security

Events and Webcasts

http://www.microsoft.com/seminar/events/security.mspx

Top Security Papers: location

- Windows XP Security Guide: http:// go.micro.
- How To Implement Patch Management: http:// msdn.microsoft.com/library/default.asp?url =/library/en-us/secmod/html/secmod108.asp
- Securing your Network: http://msdn.microsoft.com/library/en-us/secmod/html/secmoc
- Auditing & Intrusion Detection: http://www.microsoft.com/technet/security/guidance/secmod
- Security Risk Management: http://www.microsoft.com/technet/security/guidance/secmod

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