

Making Computing More Trustworthy

Microsoft AG

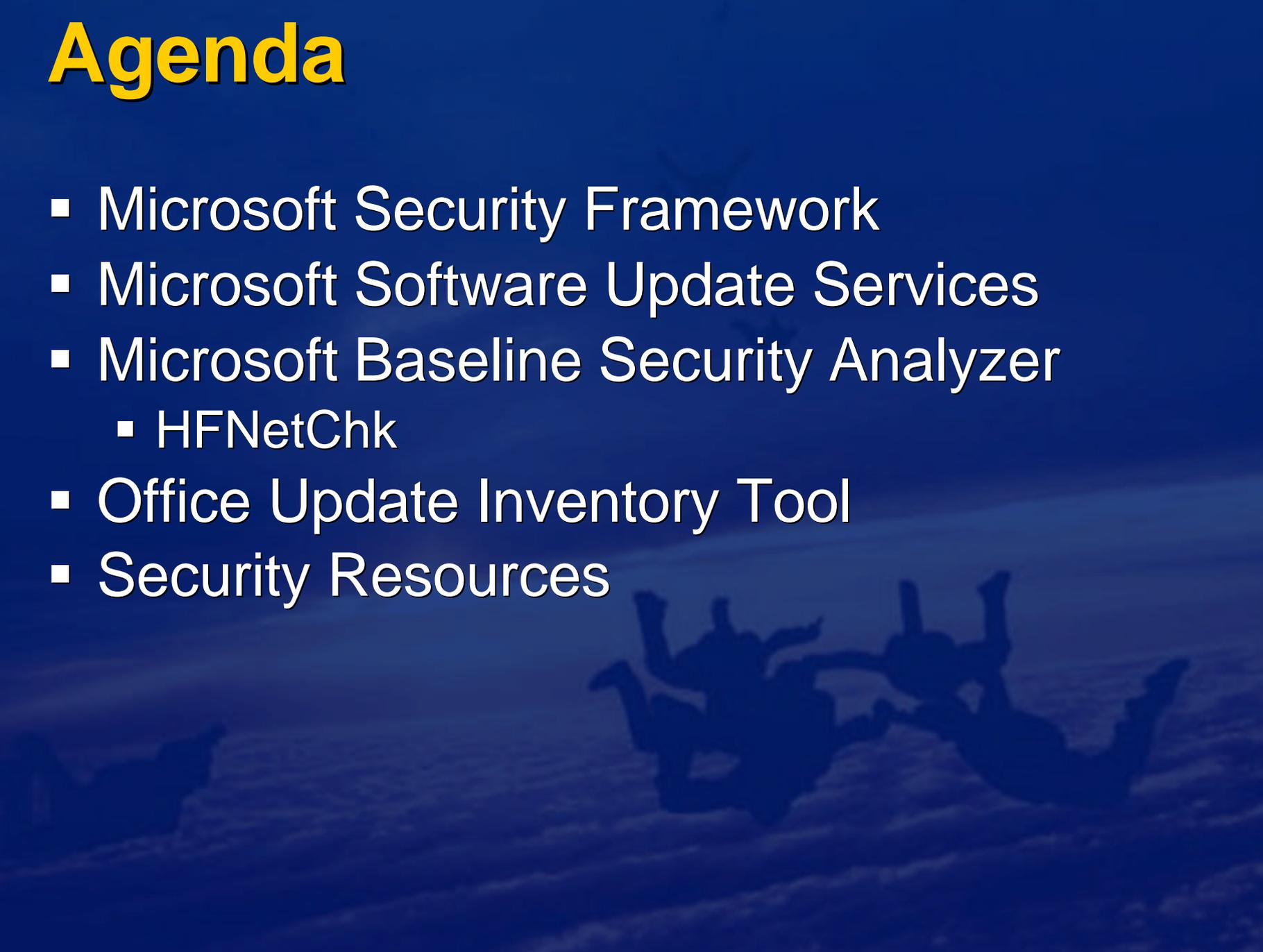
Enterprise & Partner Group

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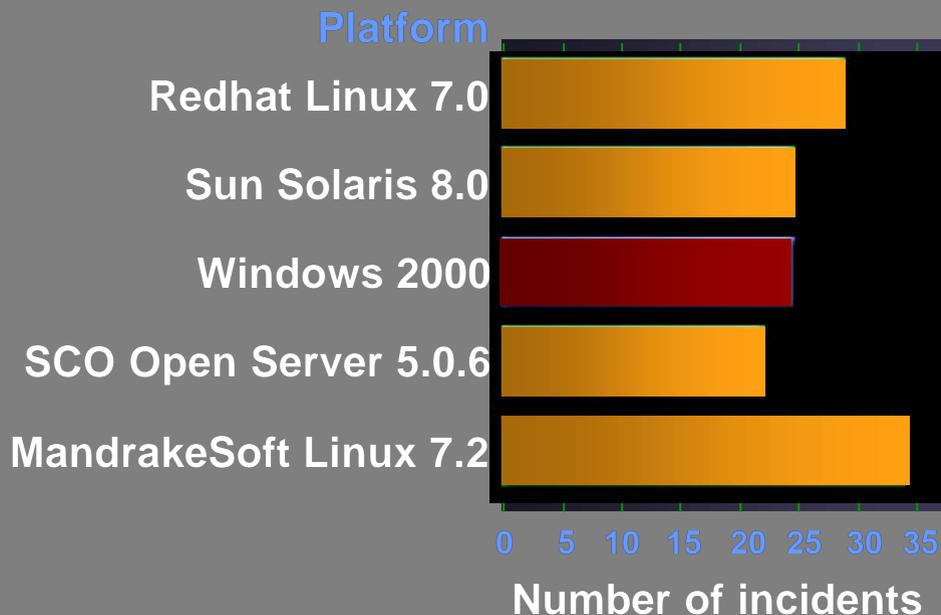
Agenda

- Microsoft Security Framework
 - Microsoft Software Update Services
 - Microsoft Baseline Security Analyzer
 - HFNetChk
 - Office Update Inventory Tool
 - Security Resources
- 
- The background of the slide is a solid dark blue color. In the lower half, there are several dark blue silhouettes of people jumping or falling in the air, scattered across the width of the slide. The silhouettes are positioned behind the text, creating a layered effect.

Our Industry has a Problem

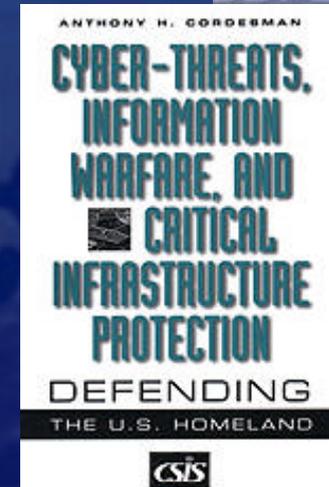
- Security breaches common
 - Malicious code
 - Good code with bugs
- Escalating challenges
 - Connectivity
 - Administration
- Adoption of IT in doubt
 - Customers need to believe in technologies, companies and services
- No common framework for discussion

Reported Vulnerabilities by OS in 2000



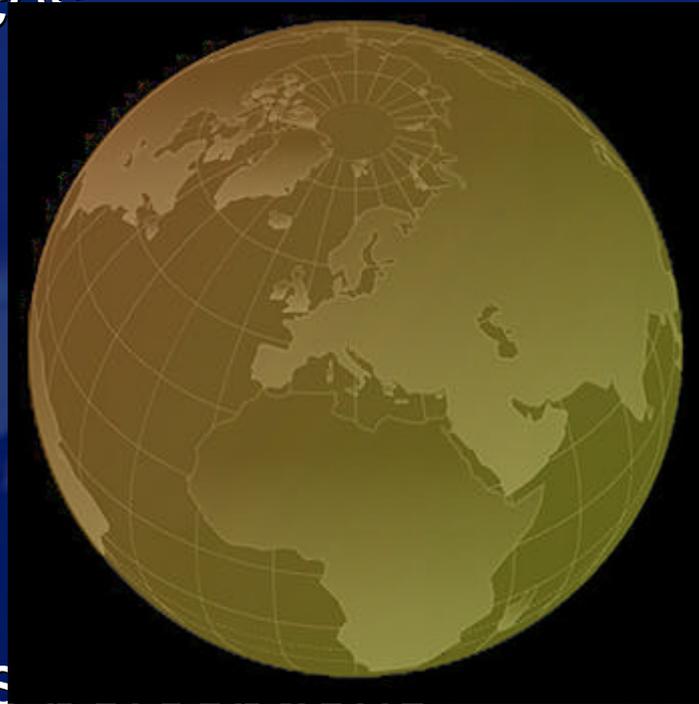
Critical Infrastructure

- Computers are increasingly essential our everyday lives
- Evolving markets drive new priorities
 - Complex, interconnected systems
 - Devices at all scales
 - Enterprise reliability requirements
- Information Technology is essential but vulnerable
- Customers won't depend on what they don't trust



Tackling the Problem

- Work on all fronts
 - Security, privacy, reliability, business integrity
 - All platforms and experiences
 - Across the organization
 - With all our customers
 - Across the industry
- Culture shift
 - Trustworthiness as priority
 - Now and Forever
 - Change behavior as well as perceptions



Microsoft Security Framework

SD³ + C

Secure by Design

- ❑ Secure architecture
- ❑ Security aware features
- ❑ Reduce vulnerabilities

Secure by Default

- ❑ Reduce attack surface area
- ❑ Unused features off by default
- ❑ Only require configuration

Secure in

Deployment

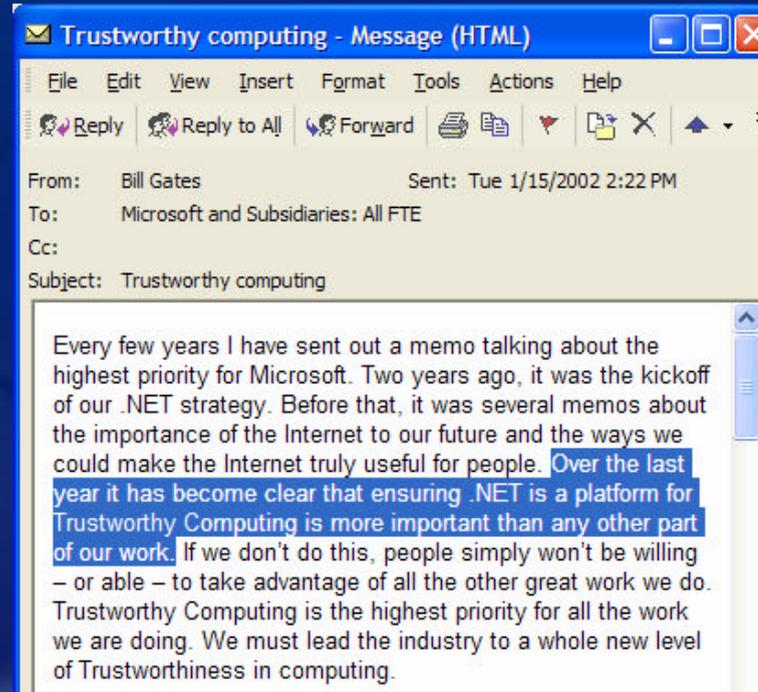
- ❑ Protect, Detect, Defend, Recover, Manage
- ❑ Process: How To's, Architecture Guides
- ❑ People: Training

Communications

- ❑ Partner with the security community
- ❑ Microsoft Security Response Center

Secure by Design

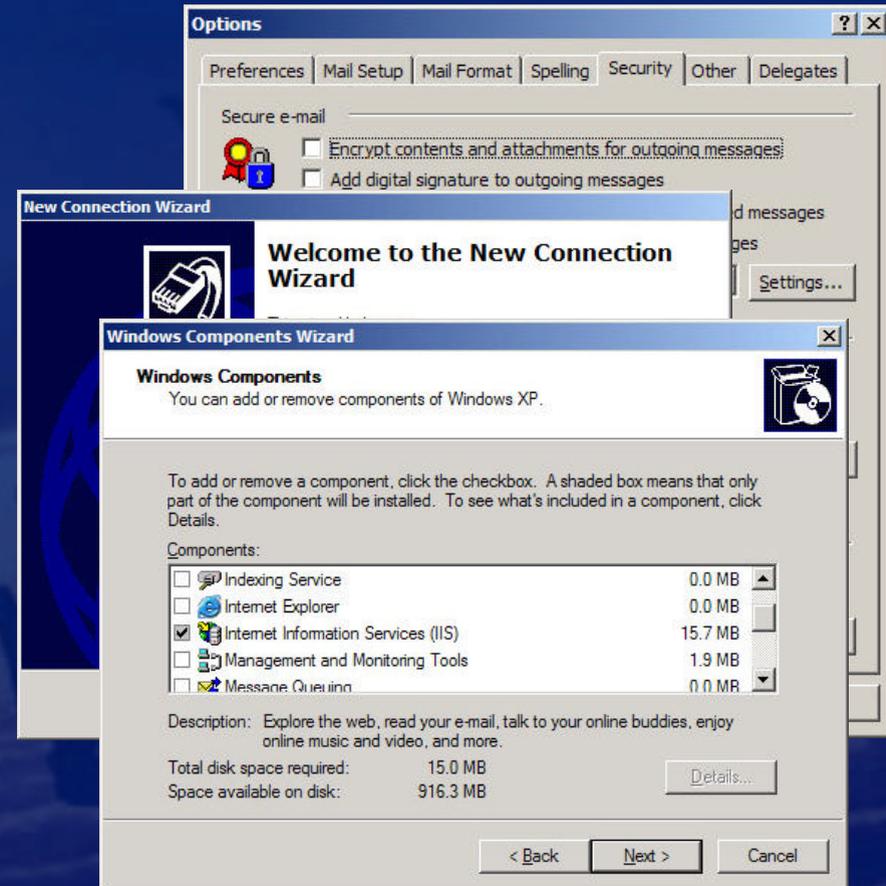
- Product
 - Security Push
 - New tools, compiler improvements
 - Security Business Unit
- People
 - Retrained dev, test, PM
 - Appointed Chief Security Strategist
 - Leads driving best practices across company
- Process
 - R&D budget for security tripled
 - Threat model-driven reviews
 - Bug feedback loop & code sign-off reqs



Secure By Default

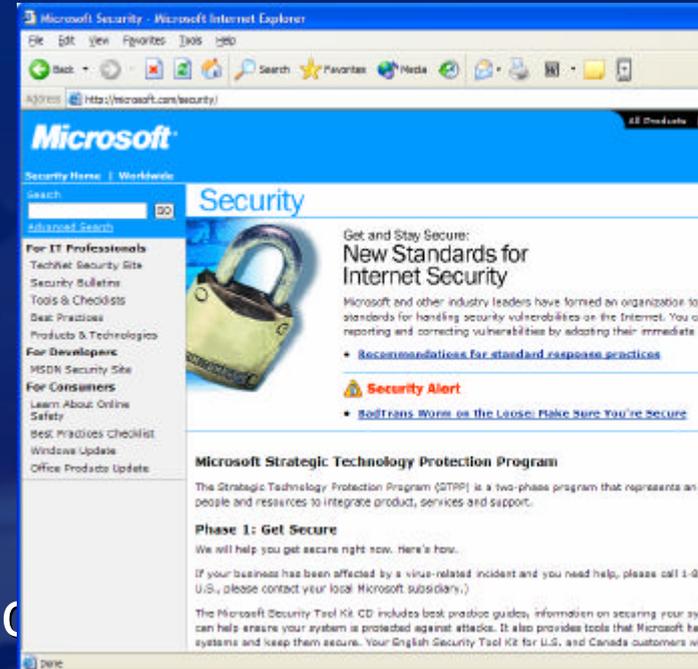


- Office XP
 - .exe receipt, script access disabled
- Windows XP
 - Internet Connection Firewall
- Major products to ship secure by default
 - .NET server, IIS6, SQLnext, Office 11
 - Backporting to Windows 2000, IIS5.x and earlier



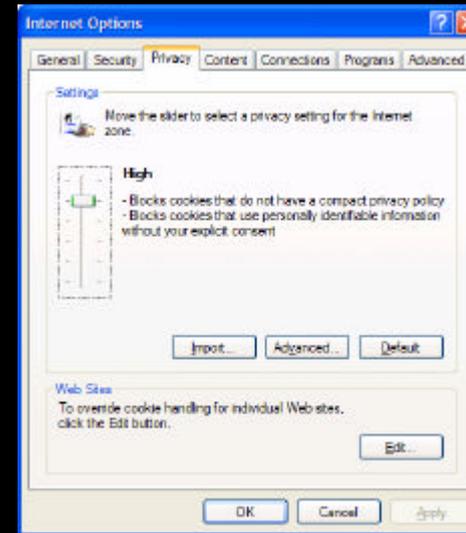
Secure in Deployment

- STPP - Get Secure
 - Microsoft Security Toolkit
 - Microsoft Baseline Security Analyzer
 - Security Assessment Program
 - Deployment, update, lockdown tools
- STPP - Stay Secure
 - Windows 2000 Security Rollup
 - Windows 2000 SP3
 - Microsoft Software Update Service
 - SMS Valuepack
- Microsoft Security Response Center
- Systems Integrator Source Licensing Program
- Windows Update



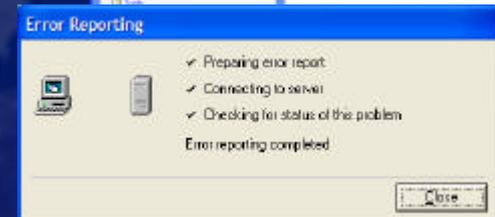
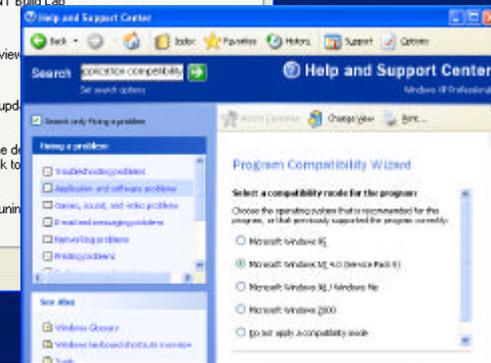
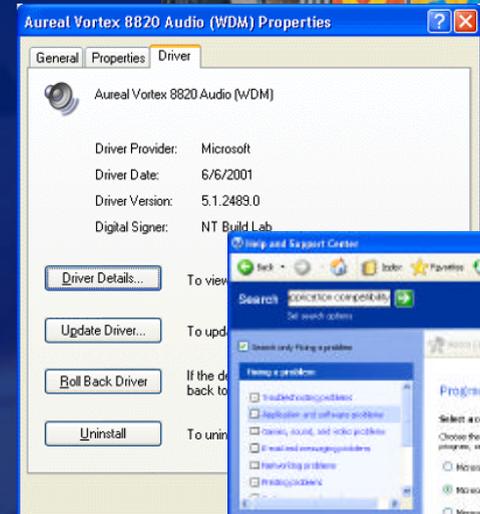
Privacy: Products & Process

- Product design
 - P3P support in IE 6
 - Kerberos for Passport
 - Office XP Privacy
 - Anonymous XP activation
 - MSN 8 tools to manage what kids access
- Business practices
 - MSN shows users data held on them
 - FIP, GLB, Safe Harbor
 - Third party audits
 - Privacy Directive and Handbook
 - Privacy Health Index



Reliability

- Five Nines
- Windows XP
 - Driver management
 - Shared DLL support
 - Improved installation, update, backup, repair, recovery
- Product Quality Initiative
 - Documentation, feedback, measurement, integration
- Error reporting
 - Office fixed 40% of crashes for SP1
 - VS fixed 57% crashes in beta
 - Vendor web site



Microsoft Security Response Center

- Works within framework of Microsoft Security Commitment
 - Responds to every report within 24 hours, 7 days a week
 - Works with product groups when issue requires
 - Provides bulletin and web posting of patches or workarounds
- Ensures wide distribution of information
 - Free email list
 - Proactive media notification of serious issues
 - Key priority is getting patches to more customers

Delivery Vehicles

Service Pack
(may include many SRPs)

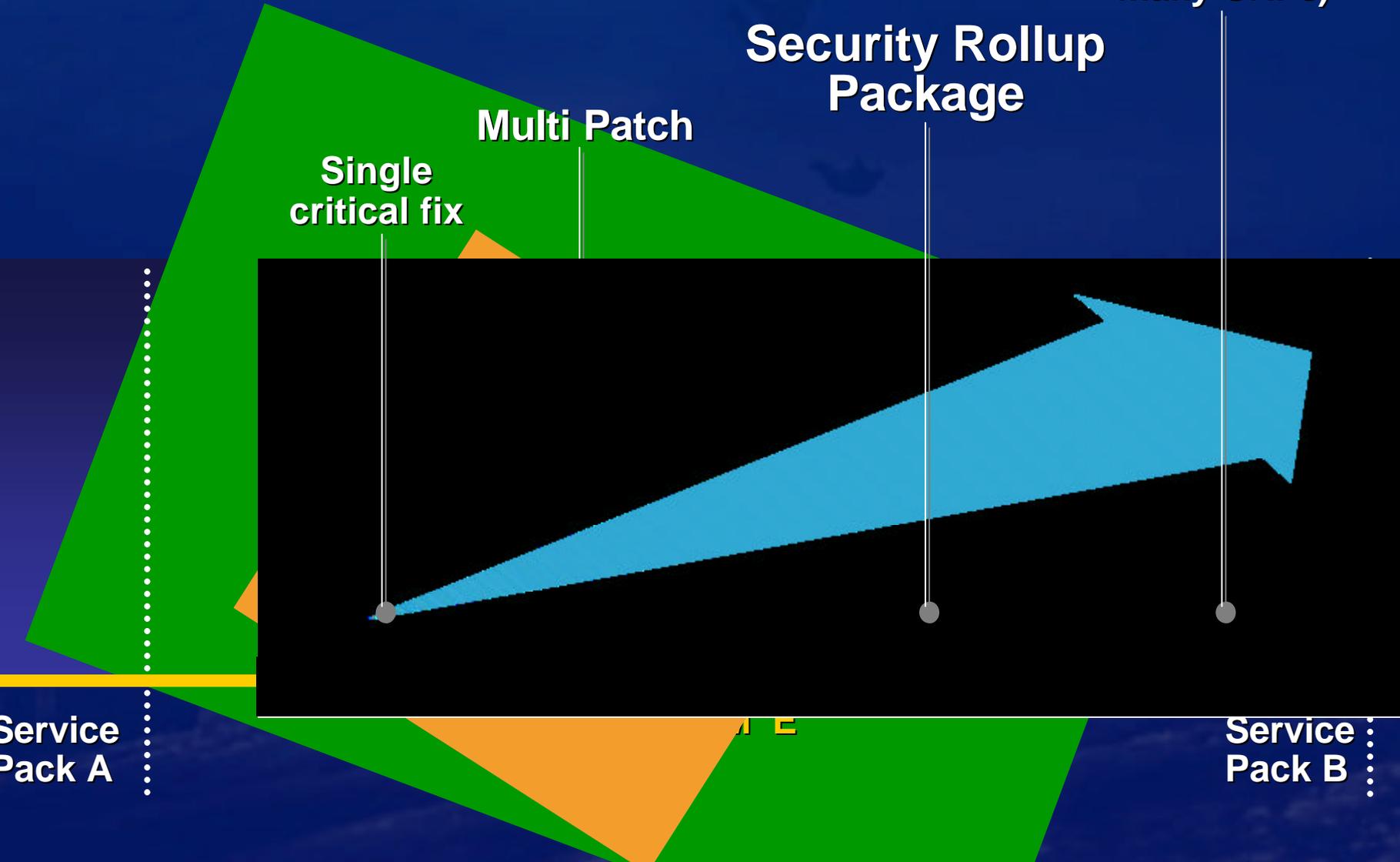
Security Rollup Package

Multi Patch

Single critical fix

Service Pack A

Service Pack B



Microsoft Security Tools for Corporate System Administrators

Microsoft AG

Enterprise & Partner Group

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Security in a Complex World

- Security requires a framework composed of:
 - Process (procedures, guidelines)
 - Technology (hardware, software, networks)
 - People (culture, knowledge)
- Security will fail if only focusing on part of the problem
- Technology is neither the whole problem nor the whole solution

Microsoft Software Update Services 1.0



Microsoft®

Software Update Services

Patch Management for IT controlled desktop

- IT departments today do **not allow** users to go to the public Windows Update site
- IT departments do not want users to install Security updates and other Windows Update packages without them being tested in their Standard Operating Environment
- **Solution:**
 - Microsoft Software Update Services

Microsoft Software Update Services – SA Edition

- As part of our ongoing efforts to add value to Software Assurance (SA) customers, we have decided to create a special level of MSUS that gives SA customers additional benefits. Microsoft Software Update Services, SA Edition will be available in July 2002. It will build on the free version of Microsoft Software Update Services and provide these customers access to additional content.
 - Service Packs
 - Recommended QFE's

Architecture:



Microsoft[®]
Software Update Services



Windows: Critical Security Updates,
Security Rollups, Service Packs



Internet

Sync Updates



Configured via web based admin
tool. Admin Approves Updates

Intranet



CorpWu



Download and
install **Approved**
Updates



Corporate Servers, Desktops
and Laptops with the
Automatic Updates Client

Central
Client
Config



CorpWU Components

- Auto Update Client
 - Based on Windows XP Auto Update
 - Check corporate or public WU for updates
 - Can be configured centrally by Administrator or locally configured by the local administrator
 - Can auto-download and install updates under admin control
- CorpWu Server
 - Hosted on the corporate intranet
 - Synchronization service with public WU
 - Administrator control over updates that can be deployed

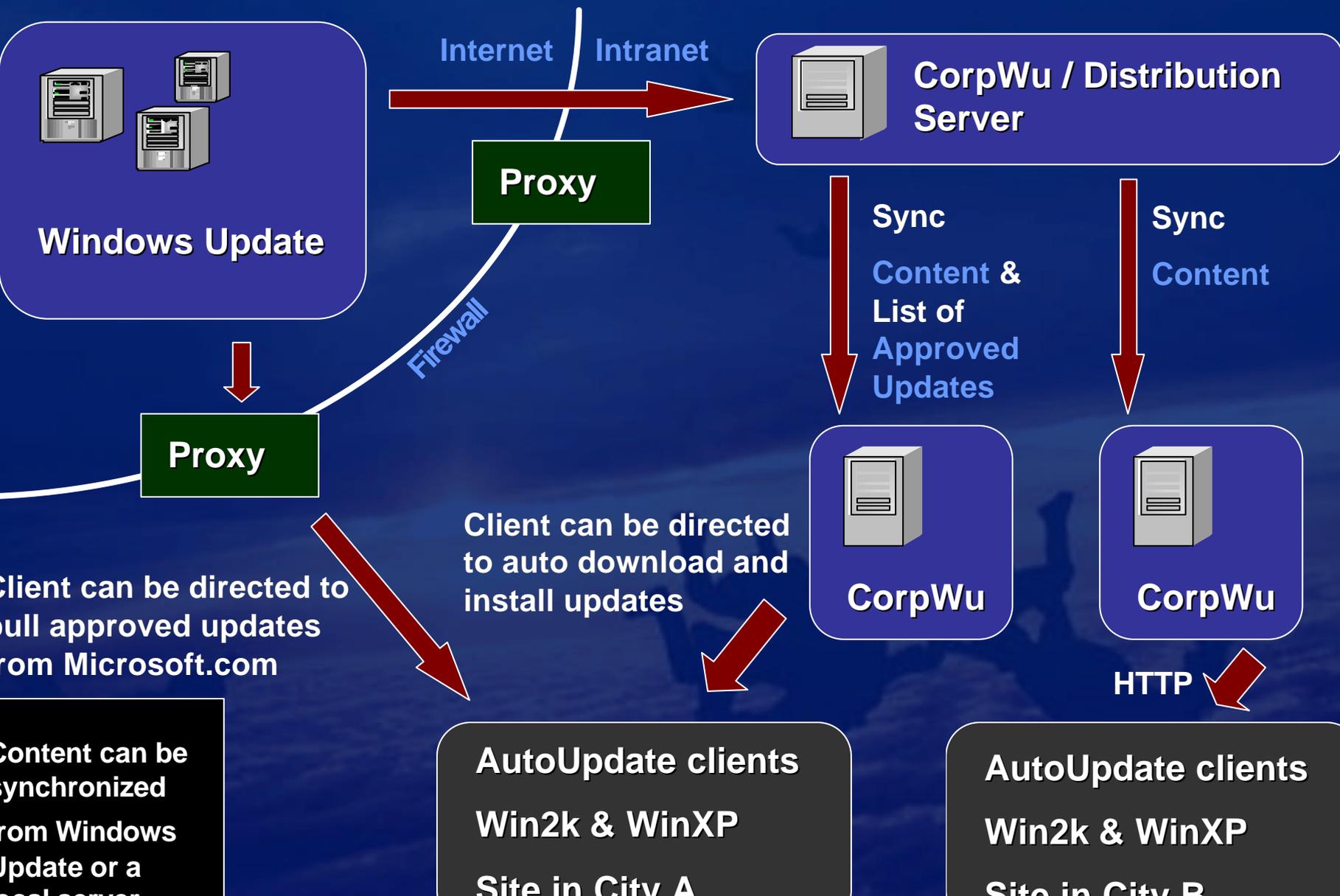
CorpWU Server Details

- Support for:
 - Intranet hosted WU server to support AutoUpdate v2.2 and higher clients
 - Administrator control over which patches get distributed within the corporation
 - Support for only Windows critical updates and service packs hosted on Windows Update
- Not Supported in V1:
 - Support critical non-Windows updates (e.g. SQL, Exchange, Office)
 - 3rd party update publishing
 - Full app distribution
 - Driver deployments
 - Targeting, i.e. integration w/Active Directory

CorpWU Server Features

- Web-based administration
 - http to the server using IE 5.5 or greater
- Synchronization
 - Manual & Scheduled metadata and update file synchronization options
- Software updates location
 - Local on the intranet or leverage the public Windows Update infrastructure
- Scale out
 - Synchronize content and list of approved items from a local CorpWU server or distribution point
- Admin control
 - Updates are not made available to clients until the admin approves them
- Server-side logging
 - Operations log – synchronization and content approval processes
- Client Status
 - Download and install status is pinged to a statistics (web) server

CorpWu Server Scale-out



CorpWu Security

- AutoUpdate client will only install packages that have been signed by Microsoft
- All of the data files used by the CorpWU server are also checked to see that they have been signed by Microsoft



CorpWU Server Roadmap

- Server
 - **CorpWU *RTM*** in early Q2 / 2002
 - Localized in English and Japanese only
 - Can distribute updates for all Windows XP and Windows 2000 localized languages
- Supported on Windows 2000 SP2 and Windows.NET Server Beta 3
- Microsoft Software Update Services Overview Whitepaper
 - <http://www.microsoft.com/technet/treeview/default.asp?url=/technet/ittasks/support/CorpWU.asp>

SMS Value Pack

announcing...



In Beta Now!

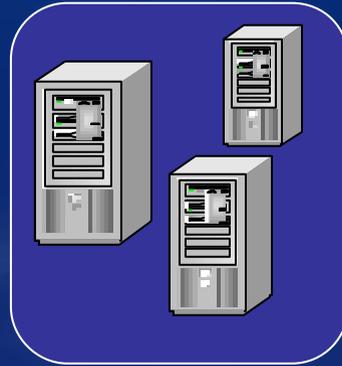
SMS Value Pack

- Uses existing SMS software distribution to deploy HFNetChk to all systems
- SMS runs a recurring task automatically, collecting information about which computers need what patches
- Data reported to a single enterprise-wide repository using existing SMS inventory features
- SMS generates rich IT reports of up-to-date results
- Clients are automatically sent patches using SMS distribution features (with status reports)

SMS Architecture

Download Center /
Office Update, etc.

Scheduled
Scan Tool, &
Database
Updates



← MSSecure.XML, etc.

→ Patches, QFEs, SRPs, etc.

Internet

Intranet

← MMC / Patch Wizard,
Status Messages /
Inventory

→ Web Reports

Managed Corporate
Servers,
Workstations and
Laptops

SMS 2.x
Site Infra-
structure

← Scan Tool + Inventory Collection

→ Scan Tool + Install Applicable Patches



SMS Value Pack

Patch Management Benefits

- Support for download level platforms
 - Windows NT 4.0, Windows 2000, Windows XP
- Support for Windows Updates (critical, non –critical, and service packs)
- Support of Office Updates
- Any patch that can be reported by HFNetChk can be distributed
- Consistent SW Distribution across the enterprise
- Detailed logging and status reporting

SUS / SMS Value Pack

Positioning

- Microsoft's "A" recommendation for which tool to use:

	Recommended Technology to deploy critical updates
Home User	Windows Update
Small Business	Windows Update**
Medium Enterprise	Software Update Services
Large Enterprise	SMS

- **Small Business that work with a VAP should also consider SUS
- Official external positioning is available at:
<http://www.microsoft.com/windows2000/windowsupdate/sus/suschoosing.asp>
- Please attend WINCT303 for a discussion on SW Distribution Positioning, Deployment Issues and Futures

Microsoft Baseline Security Analyzer 1.0



Microsoft

Baseline Security Analyzer

- HFNetChk is a Command Line executable for Microsoft® Windows NT®, Windows® 2000, and Windows XP
- Scans local and remote computers
- Checks status of security patches for:
 - Windows NT 4.0, Windows 2000, and Windows XP
 - Internet Explorer 5.01 and later versions
 - IIS 4.0 and 5.0
 - SQL 7.0 and later versions
- HFNetChk Webcast for additional Information
 - <http://support.microsoft.com/default.aspx?scid=%2Fservicedesks%2Fwebcasts%2Fwc040902%2Fwcblurb040902%2Easp>
- HFNetChk Tool Available for Download
 - <http://support.microsoft.com/default.aspx?scid=kb;en-us;Q303215>
- Knowledge Base Articles
 - Q305385, Q303215, Q315665

Microsoft Baseline Security Analyzer Version 1.0

- Graphical and command line versions
- Presents security report card
 - Overall machine grade
 - Pass/fail score per security check
 - Instructions on fixing vulnerabilities found
- Tool is “read-only” – no remote configuration of machines being performed
- User must have local Administrative access on each scanned machine

Microsoft Baseline Security Analyzer Version 1.0

- Single executable that runs on Windows 2000 and Windows XP
- Performs local and remote scans against Windows NT 4, Windows 2000, and Windows XP systems
- Checks for common security mis-configurations and missing hotfixes or service packs
 - Windows
 - IIS 4 & IIS 5
 - SQL 7 & SQL 2000
 - Desktop applications
 - Internet Explorer
 - Office
 - Outlook

Microsoft Baseline Security Analyzer Usage Scenarios

- Administrators can install MBSA on a single machine and remotely scan their entire network for potential OS and application vulnerabilities
 - Individual machine reports created on the machine hosting MBSA
- Home users can scan their local machines for missing hotfixes and Windows specific security settings
- Network administrators can use the command line version to do scheduled scans of their networks on a regular basis

Microsoft Baseline Security Analyzer Roadmap

- Version 1 Public Release now Available
- Free web download at <http://www.Microsoft.com/security>
 - Support available through Microsoft PSS
- Version 2 plans under development
 - Support for Windows .NET Server
 - Additional Microsoft application checks
 - Localization to additional languages

Security Tool Relationships

- MBSA replaces the Microsoft Personal Security Advisor (MPSA)
 - MBSA scans both servers and workstations locally and remotely
 - MBSA is a superset of the MPSA tool checks
- MBSA includes a version of HFNetChk for detection of missing hotfixes

Summary

- The MBSA provides...
 - An easy way to scan individual or multiple computers for vulnerabilities and missing patches or hotfixes
 - An easy to use graphical interface for individual home or corporate use
 - A command line interface that administrators may call from a batch file or use in a regularly scheduled job

Office Update Inventory Tool

- Survey the status of Office updates
 - Office 2000 and Office XP
- Command Line Utility
- Office Update Inventory Tool Readme (Q312982)
- Create Patch Status as XML File
- Future Version of MBSA Support Office

```
<?xml version="1.0" ?>
- <INVENTORY>
  - <MACHINE NAME="WKS-XP">
    - <INSTALLED>
      <PATCH NAME="Office XP Service Pack 1 (English version)" />
      <PATCH NAME="Visio Professional 2002 Service Release 1 (English version)" />
    </INSTALLED>
  </MACHINE>
</INVENTORY>
```

Security Resources

- Microsoft Security Tools
 - Microsoft Baseline Security Analyzer, EFS Security Tool, URLScan, HFNetChk, IIS Lockdown....
 - Security Checklists
 - HotFix & Security Bulletin Service
 - Product Security Notification
 - <http://www.microsoft.com/technet/security>
- We Need Your Feedback
 - secfdbck@microsoft.com

Microsoft's Commitment

“To do everything possible to make certain that every customer can work, communicate, and transact securely over the Internet.”

*Brian Valentine
Senior Vice-President
Microsoft Corporation*

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