Windows Vista
Update...

Northwestern University
The Windows Experience Gets Better Continuously, Thanks To Improvements From Multiple Channels

Opt-in, diagnostic services in Windows Vista let us identify issues and work with partners to create a fast, virtuous cycle of improvement.
Microsoft Is Making Steady Progress Resolving Application Compatibility Issues

- Engaging with ISVs – driving weekly “wins” in getting major applications work on Windows Vista
  - 50 out of 50 of NPD’s top selling applications are compatible with Windows Vista (per internal testing and/or vendor statements)

- Hundreds of applications tested and remediated by ISVs visiting our ISV app compatibility lab for a week-long engagement

- Robust tools at OS Launch to help assess and mitigate application compatibility problems
  - Over 900 enterprise IT administrators with our enterprise customers trained on Application Compatibility Toolkit 5 usage and application remediation

Over 100 Key Enterprise Application Blocking Deployments have been Remediated

More than 2200 applications have the Windows Logo

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Device Coverage Continues To Grow Rapidly

Windows Vista supports the vast majority of device IDs in the ecosystem.

Number of Logoed Devices exceeds 15,000 and growth is outpacing Windows XP.

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Windows Vista Security – 180 Days later…

![Vulnerabilities - First 6 Months Fixed & Unfixed Chart]
Pre-SP1 Improvements To Windows Vista Address Some Of The Most Important Issues Affecting Customers

- Hundreds of improvements based on direct customer feedback
- Over 20 Reliability and Compatibility updates delivered to all users using Windows Update
  - 3 App Compat updates (Jan, April, & July)
  - 2 Media Center updates (Apr & June)
  - 2 Performance, Reliability & Compatibility updates (Aug)
  - 2 Daylight Savings Time updates (Feb & Aug)
  - Numerous hardware-specific updates such as HD Audio, targeted to the machines with the specific hardware
- Many updates (hotfixes) provided to OEMs and enterprises that address specific hardware compatibility, or enterprise deployment issues
- Customers can choose which updates they want, and install them with the technology best for their organization.
  - Windows Update (WU)
  - Windows Server Update Services (WSUS)
  - System Center Configuration Manager or 3rd party tools
- We will continue to deliver security, compatibility, reliability and performance updates, up to SP1 and beyond, as they are needed

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Windows Vista SP1 is Another Vehicle To Improve Experience

Windows Vista SP1 is an update to Windows Vista that, along with improvements delivered via Windows Update, addresses key feedback received from our customers.

Windows Vista SP1 is...

- A vehicle for delivering improvements and enhancements, not new features
- Built and tested to enable smooth transitions for applications from Windows Vista RTM to Windows Vista SP1
Windows Vista SP1 Makes Improvements In Areas Most Important To Our Customers

- Support for emerging hardware and standards
- Improvements to the administration experience
- Reliability, performance, and compatibility improvements, including all previously released updates
Improvements Focusing On Reliability, Performance, And Compatibility

Windows Vista SP1 includes all previously released updates

Windows Vista SP1 includes reliability improvements that target the some of the most common causes of crashes and hangs

Windows Vista SP1 improves both overall performance and key scenarios such as copying files and speeding resume time

Windows Vista SP1 improves the security of running RemoteApp™ programs and desktops by allowing RDP files to be signed.

Changes in Windows Vista SP1 improve the success of peer-to-peer connections, such as Windows MeetingSpace or Remote Assistance, when both PCs are behind symmetric NATs

Support for emerging hardware and standards

Improvements to the administration experience

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Support For New Hardware And Emerging Standards

Windows Vista SP1 can boot via EFI on an x64 machine.

Windows Vista SP1 supports ExFAT, a new standard that will be used in flash memory storage and consumer devices.

Support for SD Advanced DMA Support to improve transfer performance and decrease CPU utilization is part of Windows Vista SP1.

A series of new API's and software features to enable 3D application and game developers to make more complete and efficient use of the upcoming generation of graphics Direct3D 10.1 hardware.

Support for emerging hardware and standards  

Improvements to the administration experience  

Reliability, performance, and compatibility improvements, including all previously released updates.

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Improvements To Further Ease PC Management

- Windows Vista SP1 extends BitLocker encryption support to volumes other than bootable volumes.
- Windows Vista SP1 supports SSTP, a remote access VPN tunneling protocol that will be part of Microsoft’s RRAS platform, helps provide full-network VPN remote access connections.
- Windows Vista SP1 improves printer management by simplifying printing to a local printer from within a Terminal Server session.
- Network Diagnostics in Windows Vista SP1 will help users with the most common file sharing problems, in addition to solving basic problems already supported.
- Windows Vista SP1 includes an update to Disk Defragmenter so administrators can control which volumes the disk defragmenter runs on.

Support for emerging hardware and standards

Improvements to the administration experience

Reliability, performance, and compatibility improvements, including all previously released updates

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Comparing Windows Vista SP1 with Windows XP SP2

- Designed to limit UI changes for reduced impact to help desk calls
- Designed to limit impact on application compatibility
- Smaller download size from Windows Update
**But Some Windows Vista SP1 Improvements Come With Tradeoffs**

<table>
<thead>
<tr>
<th>Improvement</th>
<th>Tradeoff</th>
<th>Microsoft actions and recommendations for reducing impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>• The standalone Service Pack services all languages, so it can update all Windows Vista PCs of a certain architecture, regardless of language</td>
<td>• The standalone package is large (500MB for x86)</td>
<td>• When deploying Windows Vista, be sure that a PC’s system partition has sufficient space</td>
</tr>
</tbody>
</table>
| • SP1’s component based architecture supports new servicing scenarios, such as allowing customers to uninstall updates in any order, more reliably | • Installing the service pack requires a large amount of free space (1GB for x86) although most of this space is reclaimed  
*These sizes are for Beta release* |                                                                                                 |
In Advance of Windows Vista SP1, Business Customers Should Begin Piloting Windows Vista Today

<table>
<thead>
<tr>
<th>Organizations that are...</th>
<th>Application Testing Guidance</th>
<th>Initial Pilot Guidance</th>
<th>Broader Pilot Guidance</th>
<th>Deployment Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>...currently evaluating, testing and deploying Windows Vista</td>
<td>Continue testing applications on Windows Vista RTM</td>
<td>Continue evaluation, testing and piloting on Windows Vista RTM</td>
<td>Continue evaluation, testing and piloting on Windows Vista RTM</td>
<td>Continue deployment on Windows Vista RTM</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Upgrade PCs to Windows Vista SP1</td>
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<td></td>
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<td>In the future, post Vista deployment</td>
</tr>
<tr>
<td>...starting to evaluate Windows Vista</td>
<td>Start testing applications Windows Vista RTM to find internal and 3rd party applications that need remediation</td>
<td>Initiate a pilot on Windows Vista RTM</td>
<td>With the release of Windows Vista SP1 RC, expand the pilot to include Windows Vista SP1 PCs</td>
<td>Implement broad deployment on Windows Vista SP1</td>
</tr>
<tr>
<td>...intending to wait for Windows Vista SP1</td>
<td>Start testing applications Windows Vista RTM to find internal and 3rd party applications that need remediation</td>
<td>With the release of the RC of Windows Vista SP1, begin a Windows Vista pilot with Windows Vista SP1 PCs</td>
<td>Expand the pilot on Windows Vista SP1</td>
<td>Implement broad deployment on Windows Vista SP1</td>
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Home users do not need to wait for Windows Vista SP1

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How to Deploy Windows Vista SP1?

Consumers
- Windows Update

Mid-market
- Windows Update
- WSUS
- Standalone Package/Software Distribution Tools

Enterprise
- Standalone Package/Software Distribution Tools
- WSUS

New Computers
- Slipstream

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How to Deploy Windows Vista SP1?
Windows Update / Automatic Updates

Experience
- Prerequisite packages are released prior to SP RTM and installed with other patches
- Express download of Service Pack is approximately 50 MB and downloads in the background

Pros
- If Automatic Updates are turned on, the install happens with little user intervention.

Cons
- Multiple packages to install, if prerequisite packages not already installed. Without manually checking Windows Update, the next package will appear about 24 hours after the previous one is installed.
How to Deploy Windows Vista SP1?

Standalone Package

**Experience**
- A single executable that installs all packages required for the SP
- System will automatically reboot to install all packages
- Logon is blocked until the service pack install has completed

**Pros**
- Only one package to manage
- Can be used with Software Distribution tools

**Cons**
- Largest package and install footprint requirement – consider WSUS when bandwidth is an issue
How to Deploy Windows Vista SP1?
Slipstream

- Experience
  - OS installation results in a system running Windows Vista SP1 with no additional steps

- Pros
  - Fastest install time

- Cons
  - Service Pack is permanent on the system; cannot be uninstalled
Windows Service Packs Roadmap
As of 11/7/2007

BETA

Released
• Beta of Windows Vista SP1 released to about 12K testers
• Beta Windows XP SP3 released to limited group of testers

December 2007
• Window Vista SP1 Release Candidate released to MSDN and TechNet subscribers and then more broadly

Q1 2008
• Windows Vista SP1

H1 2008
• Windows XP SP3
Release dates will depend on confirmation from beta testers.

RELEASE CANDIDATE

RELEASE TO MANUFACTURING
Windows Roadmap
Windows Vista, MDOP and Windows 7

Approx 3 YEARS
- Windows 7
- Desktop Optimization Pack (MDOP) update

1Q CY 2008
- Windows Vista SP1*
- Desktop Optimization Pack (MDOP) update
- Windows Vista Enterprise Centralized Desktop (WVECD) ✓

TODAY
- Windows Vista & Office 2007 ✓
- Desktop Optimization Pack (MDOP) ✓
- Business Desktop Deployment 3.0 ✓

* SP1 Release date will depend on confirmation from beta testers
Call to Action

Evaluate Windows Vista RTM
- Use the Application Compatibility Toolkit
- Use the Hardware Assessment Tool
- Download the Evaluation Virtual Machine

Deploy Windows Vista Enterprise
- Use Business Desktop Deployment Accelerator 2007
- Optimize your desktop with MDOP