



Presenters

- Robert Hammann - Senior Partner
- Cody VanWalbeek - I.T. Team Leader
- Perry Lund - Senior Partner
- Eric Heikes - Web Development Team



Agenda Topics

- Windows Historical Business Overview
- Windows 7 New Features & Improvements
- Windows 7 Upgrade Pathways
- Windows 7 Installation Information
- Questions and Answers

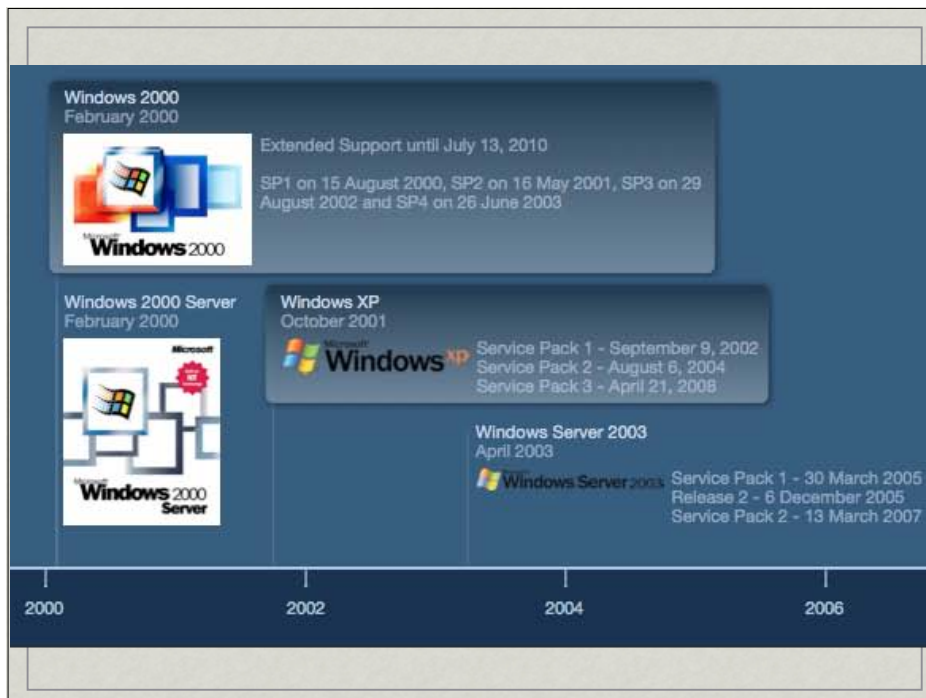


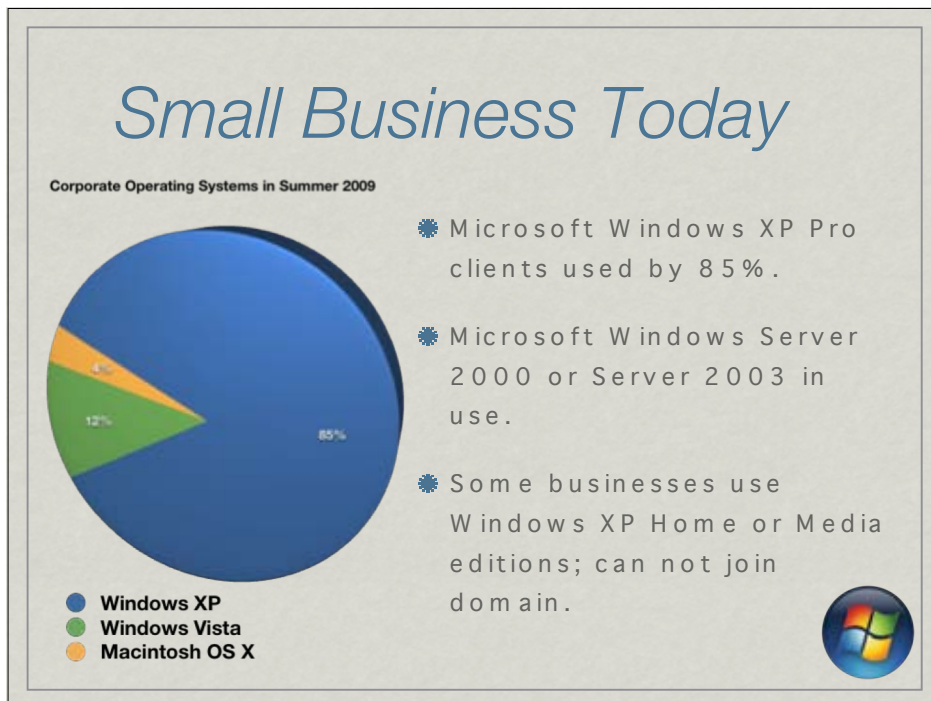
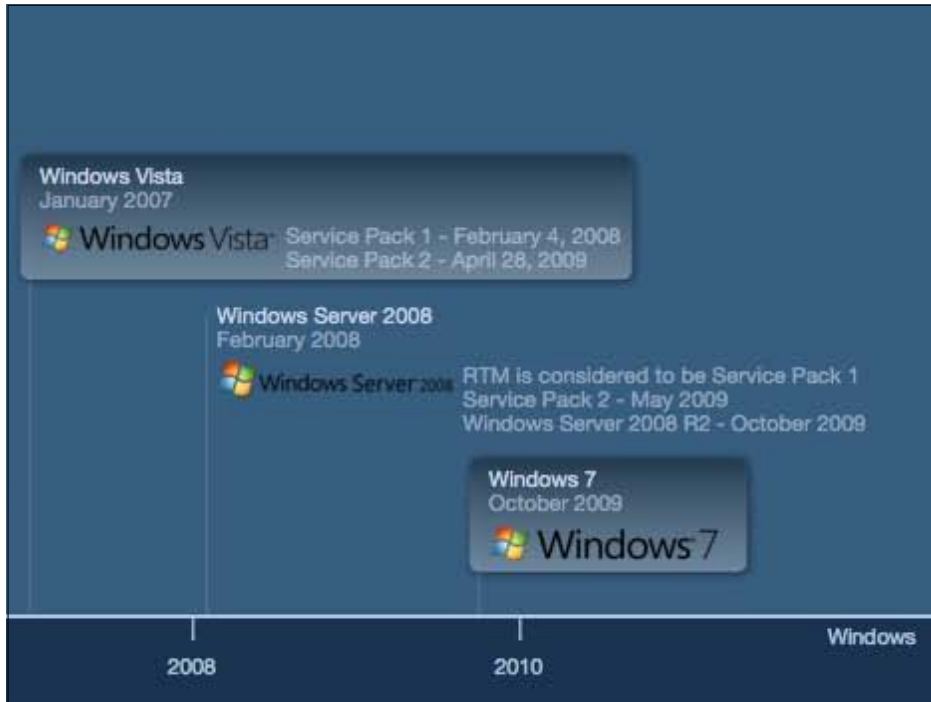
Windows in Business Brief Historical Overview



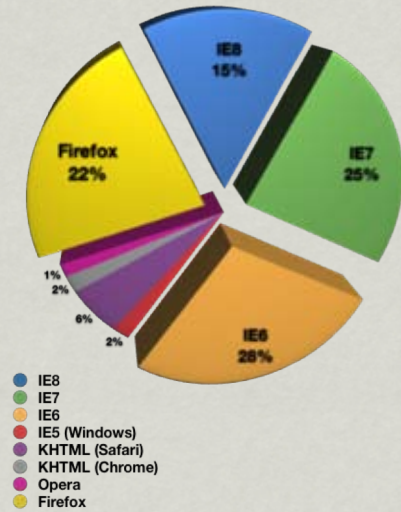
Brief Historical Overview

- From 1999 - 2006, Windows 2000 & Windows XP were the choices for operating systems.
- Microsoft Vista Business launched in late 2006.
- Windows Vista had performance and driver issues for over a year and businesses did not adopt the new operating system.





Web Browsers



- Some unstructured networks and security issues exist.
- Most businesses using older Internet Explorer 6 which lacks modern security and page rendering technologies.
- Internet Explorer 8 is part of Windows 7 operating system.



Windows 7 Story

- Betas available to widest possible audience in late 2008 and early 2009; had high level of stability.
- The release candidate was available from May - August 2009 and was widely tested for driver and application compatibility.
- Released to Manufacturing in early August 2009.



Windows 7 Improvements

Improvements

- **Faster installation** than XP or Vista.
- **Faster performance** than Vista on same computer hardware.
- Occupies **less hard drive space** than Vista.
- **More productive** user interface with **better multi-tasking** features.
- **Less clutter**; removal of non-business apps.

Time of Installation

Performance - Clean Install of Windows 7

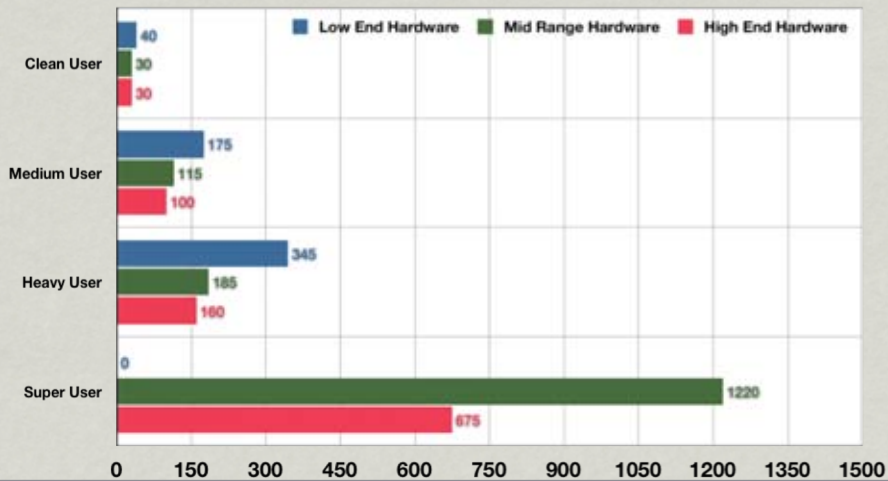
	Vista	Windows 7
Laptop	32 minutes	21 minutes
Desktop	18 minutes	15 minutes



- Laptop: Dell XPS M1330 with Core2Duo T9500, nVidia M8400, 3 GB RAM, 160 GB HD
- Desktop: Business PC with 3 GHz AMD Phenom II 945, 4 GB RAM, 1 TB HD, Radeon HD 4870

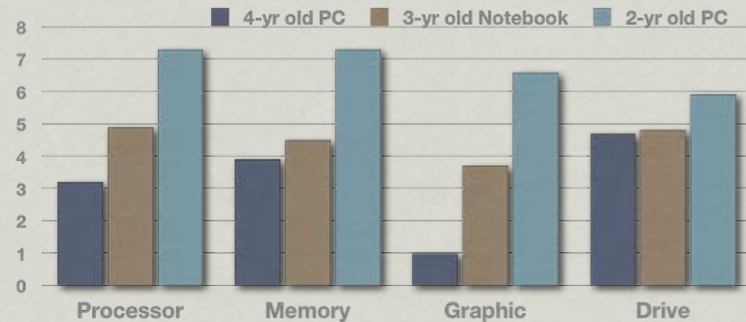
Improvements

Clean installs faster than XP



Improvements

- ✿ Upgrading to modern hardware is advisable.
- ✿ Windows 7 performs so-so on older hardware.



- ◆ 4-yr old PC: P4 @ 2.4 GHz, Intel 845, 1 GB DDR RAM, 40 GB 7200rpm HD, TNT2 Graphics
- ◆ 3-yr old Notebook: Core2 Duo T7200, 2 GB DDR2 RAM, 60 GB 7200rpm HD, GeForce Go 7400
- ◆ 2-yr old PC: QuadCore Q6600 @ 3.2GHz, 4 GB Corsair RAM, Western Digital 1 TB hard drive

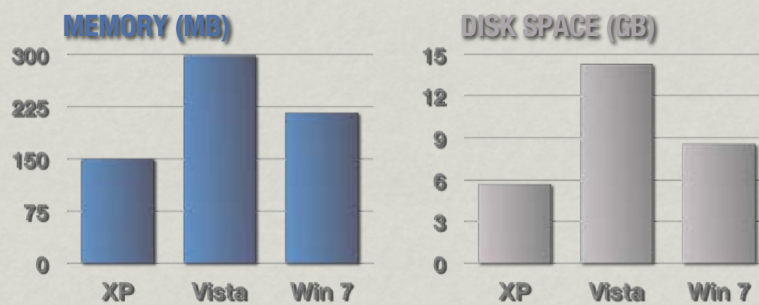
Improvements

- ✿ Windows 7 performs better than Vista on existing hardware.
- ✿ Use Windows Experience Index to identify weak performance areas and replace components.
- ✿ Do not put off purchasing new hardware when the life-cycle of a machine is completed.

Improvements

Performance - Resource Utilization

	XP	Vista	Win 7
Base Memory	150 MB	299 MB	216 MB
Disk Storage	5.7 GB	14.3 GB	8.6 GB



Windows 7 New Features and Demonstrations

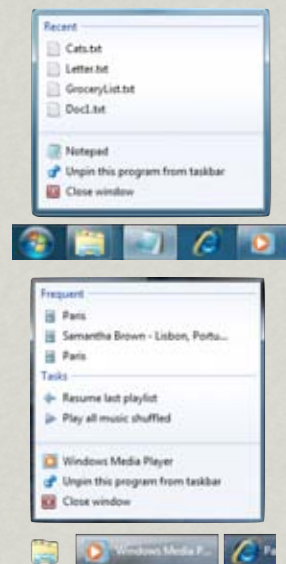
New Features

- **Taskbar:** The ability to pin your entire workspace to the taskbar – including applications and documents – and interact with them in a consistent manner is a welcome feature.
- Taskbar variations tested in Windows 7 beta testing to come up with final version.



New Features

- **Jump Lists:** A context sensitive list of accessible items associated with applications and events. A jump list for Notepad shows text documents, while in Media Player, it lists recently played tunes and related media tasks.



Windows 7 Features



AERO PEEK

Windows 7 Features



AERO SNAP

New Features

- **Libraries:** Libraries are user-defined collections of content. Windows 7 addresses the problem of users' content stored all over a PC and not just in "My Documents". Users now define what folders and locations are included in "Document Library".



New Features

- **Search Connectors:** These tools connect searches in Windows 7 to Internet services such as Flickr, Youtube, Yahoo, Google and eBay. Results can be viewed over an Internet link.



New Features

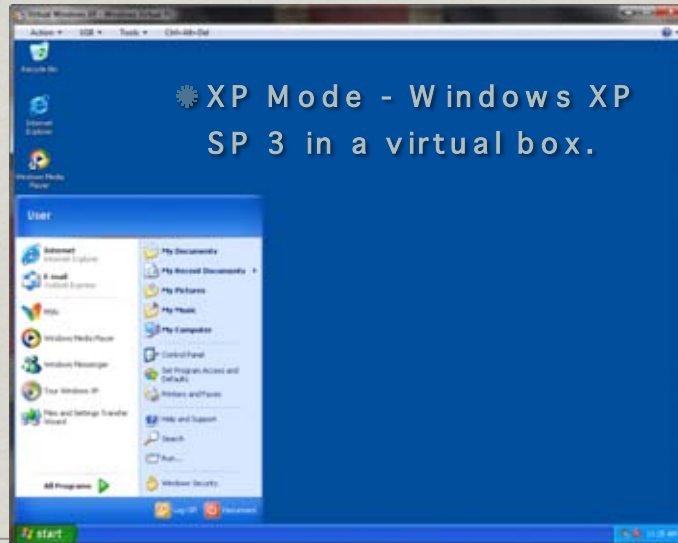
- **Internet Explorer 8:** New web browser supports web standards better and has new features. Offers a “compatibility mode” for website problems.

• <http://www.microsoft.com/windows/internet-explorer/features/faster.aspx>



New Features

- **XP Mode - Windows XP SP 3** in a virtual box.



New Features

- DirectAccess:** Mobile users gain access to business network file shares without VPN software costs and security issues. (Server 2008 R2)
- BitLocker:** Encryption of the hard drives that require password to access the applications and files stored on the computer. (Server 2008 R2)
- AppLocker:** Prevents installation of unauthorized software and allows business to specify what software is used in their organization.

New Features

Features	Home Premium	Professional	Ultimate
Maximum memory in 64-bit OS	16 GB	192 GB	192 GB
Maximum CPUs	1 CPU	2 CPUs	2 CPUs
Backup and Restore	Not network	Yes	Yes
Encrypting File System	No	Yes	Yes
Server Domain Joining	No	Yes	Yes
Remote Desktop Host	No	Yes	Yes
Windows XP Mode	No	Yes	Yes
AppLocker & BitLocker	No	No	Yes
BranchCache & Direct Access ¹	No	No	Yes
Virtual Hard Disk Booting	No	No	Yes

requires Server 2008 R2 ¹

New Features

- There are many resources for learning the new features of Windows 7. Go to this URL on the Internet for a short video on 20 new features.
- <http://tinyurl.com/l4em57>

Windows 7 Upgrade Pathways

Hardware Requirements

- 1 GHz or faster 32-bit/64-bit processor
- 1 GB RAM (32-bit) / 2 GB RAM (64-bit)
- 16 GB (32-bit) / 20 GB (64-bit) available hard drive space
- DirectX 9 graphics device
- DVD optical drive for installation media (typical)

Upgrade Advisor

- Windows 7 Upgrade Advisor is a free tool that is available from Microsoft to help users determine if Windows 7 will run on their current PC.
- The Upgrade Advisor is important for Windows XP users as there may be compatibility issues.



Upgrade Pathways

- There are two type of installations.
- **In-Place Upgrade:** Keeps your files, settings, and programs intact from your current system .
- **Custom Install:** A clean installation give you the option to either completely replace your current system or install Windows on a specific drive or partition that you select.

Windows 7 Pricing



Windows 7 Ultimate
\$319 Retail
\$219 Upgrade

Windows 7 Pro
\$299 Retail
\$199 Upgrade

Windows 7 Home
\$199 Retail
\$99 Upgrade
\$150 Family Pack

Upgrading Your PC to Windows 7 Chart modified by Ed Bott, ZDNet (c) 2009

Upgrade FROM :	Upgrade TO:		
	Windows 7 Home Premium	Windows 7 Professional	Windows 7 Ultimate
Windows XP*	Custom Install		
Any 32-bit version to 64-bit, or vice-versa	Custom Install		
Windows Vista Home Basic	In-Place Upgrade	In-Place Upgrade + Windows Anytime Upgrade	In-Place Upgrade
Windows Vista Home Premium	In-Place Upgrade	In-Place Upgrade + Windows Anytime Upgrade	In-Place Upgrade
Windows Vista Business	Custom Install	In-Place Upgrade	In-Place Upgrade
Windows Vista Ultimate	Custom Install	Custom Install	In-Place Upgrade

*This chart only applies to PCs that are eligible for a free upgrade to Windows 7. For more information, visit www.microsoft.com/windows7/upgrade.

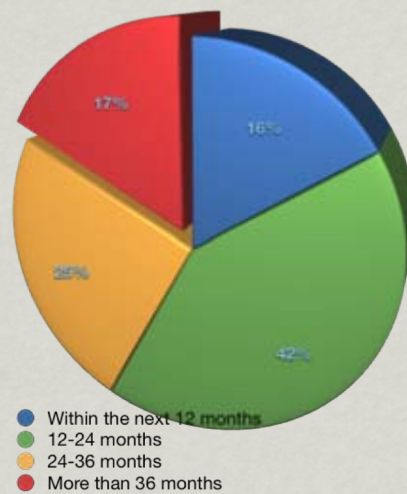
Free Upgrades from Vista to Windows 7

- ✿ Many manufacturers are already providing a free upgrade path as of late June 2009. If you have a PC purchased between June 2009 and the October release of Windows 7, you might be eligible for a free upgrade.
 - ✿ Vista Business PC to Windows 7 Professional
 - ✿ Vista Ultimate PC to Windows 7 Ultimate

Windows 7 – Projected Adoption

Projected Adoption

Timeframe to Upgrade to Windows 7

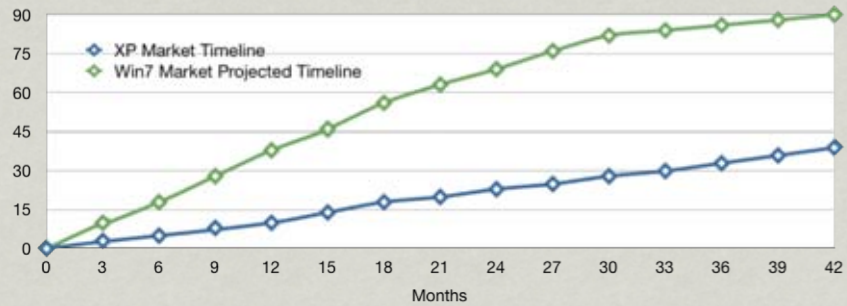


Over 80 percent of information technology professionals plan to upgrade to Windows 7 within 30 months of its Enterprise release in September 2009. About 50% of enterprise Information Technology Decision Makers plan to upgrade to Windows 7 as soon as available.

That means by February of 2012, only about 17% - 21% of large enterprise businesses will be holding onto other versions of Windows client operating systems. Microsoft will discontinue all support for Windows XP between 2010 - 2014.

Projected Adoption

Market Units (in millions)



Over 80 percent of information technology professionals plan to upgrade to Windows 7 within 30 months of its Enterprise release in September 2009.

In the next 30 months, Windows 7 license sales should reach around 80 million units in the business market, making its adoption pace much greater than Windows XP, which had a good adoption rate in early 2001 - 2004.

Projected Adoption

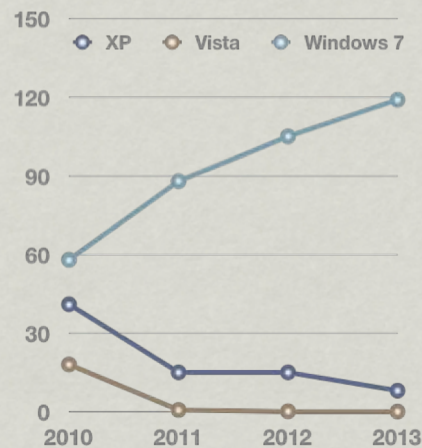
	Windows XP	Windows Vista	Windows 7
2010	41	18	58
2011	15	0.6	88
2012	15	0.1	105
2013	8	0	119

Units in millions brought by corporations

- By October 2010, Windows 7 will account for nearly half of all client operating systems shipped to corporate users at 49.5%.

- By October 2011, Windows 7 will jump to nearly 75%.

INFORMATION: FROM IDC SOURCES



Windows 7 Installation Information

Why do a Clean Install?

- What are those good reasons for a clean install?
- Windows 7 has an improved directory structure.
- Windows Registry collects garbage entries over time with software installs and uninstalls. A clean install give you a fresh Registry.
- Windows Transfer Utility works very well to move documents, files and settings to a cleanly installed Windows 7 installation.

Windows Easy Transfer



Windows Easy Transfer

- ☀ The following files and settings are transferred: files and folders, e-mail settings, contacts and messages, program settings, user accounts and settings, Internet settings and favorites, music and pictures and videos.
- ☀ Windows Easy Transfer does NOT transfer system files such as fonts and drivers or applications.

Windows Easy Transfer

- ✿ Methods of transfer

- ✿ Use a USB cable between systems if moving from an old PC to a new PC.
- ✿ Establish a network connection between the old and new PCs.
- ✿ Use removable media such as a USB flash drive or hard disk if doing a clean install on the same PC.

Questions and Answers

- ✿ So should you upgrade to Windows 7?
 - ✿ If you are using Vista, definitely.
 - ✿ If you are using XP and are happy, you do not need to upgrade, but should not be afraid to.
- ✿ Other questions?

Windows 7 Information

- Windows 7 Quick Guide PDF -
 - <http://tinyurl.com/ycrnmah>
- Hands-on video tutorials
- ArrowQuick demonstrations (email us at italert@arrowquick.com)