Windows 7 at NU
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Today’s Agenda

• **Overview of Windows 7**
  - System Requirements
  - Which Version Is Right For You?
  - Obtaining Software
  - Windows XP Mode

• **Using Windows 7 at Northwestern**
  - Connecting to the NU Network
  - Symantec Endpoint Protection
  - Known Issues With NU Systems And Other Programs

• **Fun and Helpful Features of Windows 7**
  - Aero, Shake, Snap, And Peek
  - System Restore And Performance

• **Questions and Support**
Microsoft Windows 7 is the latest Windows OS, following Windows Vista

Real World System Requirements:

- Dual Core (Intel or AMD) 1.6Ghz processor
- 4 Gigabytes RAM for 32- or 64-bit
- 40 Gigabytes of available hard drive space
- Dedicated video card for Windows Aero
- Windows XP mode requires a CPU with hardware virtualization
- Wireless B, G, or N or built in Ethernet for Internet/Network Access
System Requirements

- Upgrade to Windows 7 from Windows Vista
- Windows XP upgrade is not supported by Microsoft
- Windows 7 for University-owned and supported machines can obtained at no additional cost here
- Available for home use at a discount through Northwestern’s software vendors
• Four Editions of Windows 7
  – **Enterprise** – The University has a volume license agreement use primarily by faculty and staff on University-owned machines
  – **Professional** – Ability to join to a Windows Domain, includes Remote Desktop (mostly for students)
  – **Home Premium** – Most new computers purchased in retail have this version installed
  – **Ultimate** – For those who must have it all; includes all features from Home Premium and Professional
Which Version Is Right For You?

• **All versions include:**
  – 32-bit or 64-bit
  – Windows Media Center and Internet Explorer 8
  – Enhanced home networking and workgroup features

• **Enterprise includes:**
  – Ability to join to a Windows Domain (Active Directory)
  – Full system backup to external and network hard drives
  – Windows XP Mode
Obtaining Software: University-Owned Machines

- Titles Available:
  - Windows 7 Enterprise
    - 32bit/64bit (.iso)
  - Office 2010 Professional Plus
    - 32bit/64bit (.exe/.iso)
  - Office 2011 for Mac (.iso)
- Other Microsoft titles available for purchase via SELECT agreement through iBuyNU/SHI
Obtaining Software: Personal Use

• Home Use Program Titles:
  – Office 2010 Professional Plus – 32bit/64bit (.exe/.iso)
  – Office 2011 for Mac (.iso)

• Additional software, including Windows 7 for home use is available for purchase at a discount through E-Academy
Key Management Service - KMS

Required for University-owned machines running Windows 7, Office 2010, or Office 2011 for Mac

Once installed, client will attempt to “activate” via KMS every 2 hours

Client is activated for 180 days

More information on Microsoft Product Activation and Key Information
• Allows you to run Windows XP in a virtual environment
• Can use Windows XP software with Windows XP Mode
• Requires an Intel or AMD processor that supports hardware virtualization
  – All AMD processors except Sempron processors have hardware virtualization
  – Most Intel processors have hardware virtualization, a full list is available from Intel
Windows XP Mode

- Most, if not all, older programs will run in XP Mode
- Includes USB support for older devices
- One click launch of Windows XP Mode applications
- As with Windows XP you currently run, it must be updated regularly
- Available as a separate download from Microsoft
Connecting to the NU Network

- Wireless connectivity in Windows 7 is enhanced; includes support for most wireless security protocols out of the box.

- Only Windows 7 Enterprise and Professional have support joining to a Microsoft Active Directory.

- Connecting to most wireless networks is easy and often requires only a few clicks.
  - Windows 7 supports the wireless security protocol used here at Northwestern.
  - Connecting to the Northwestern wireless network is even easier; detailed instructions are found on the NUIT Web site.
Symantec Endpoint Protection

• Current version of SEP works with Windows 7
  – 32-bit and 64-bit versions available
  – Available for download from NUIT for all of the Northwestern community
  – Includes protection for e-mail clients such as Outlook
  – Includes Intrusion Prevention protection, plus antispyware and firewall protection
  – Smaller footprint takes up fewer system resources
  – Instructions available on the NUIT Web site
Windows XP Mode (Windows 7 Enterprise and Professional) allows you to continue using programs that do not work with Windows 7


– XP Mode can work in conjunction with Windows 7 virtually which will allow toggling back and forth simultaneously
Additional Known Issues

• Most of the current NU systems will work with Windows 7; exceptions include:
  – **Crystal Reports 9** – Used primarily for reporting out of the Student Enterprise System (SES), will not install under Windows 7; no issues with Crystal Reports 2008
  – **Meeting Maker** – Some users who have very large calendars have experienced instability issues; current workarounds can be found [here](#)
  – **Iron Mountain** – Some installations of Windows 7 can cause Iron Mountain back-ups to not occur
Aero, Shake, Snap, & Peek

- **Windows Aero** in Windows 7
  - Visual enhancements make the desktop look better and features translucent glass windows, animations, custom tints, themes, and color palettes
  - Uses your video card to perform all graphics features with no decrease in performance
  - Requires a video card with at least 128MB of video memory

- **Windows Shake**
  - Allows you to focus on one window and minimize allow others by clicking and holding on the title bar of the current window, then shaking the window
Aero, Shake, Snap, & Peek

- **Windows Snap**
  - Automatically resizes open windows
  - Useful for working with two programs side by side – drag each window to the edges of the screen, then each window snaps into place

- **Windows Peek**
  - Allows you to quickly view all of your current open applications by simply hovering the mouse over the program thumbnail in the taskbar
  - When you quickly need to switch to your desktop, move your mouse to the lower right corner of your screen to reveal your desktop
Enhanced in Windows 7, **System Restore** returns your PC’s system files and programs to a time when your computer was working fine:

- Create more restore points, both automatically and manually
- See what files would be removed or added when System Restore is used
- View which programs, updates would be affected when you restore your computer
- Is faster than any previous version, Vista and XP included
Many performance enhancements make Windows 7 faster, leaner, and less memory-hungry than Windows Vista. Services that aren’t needed are no longer loaded into memory, making more memory available to your programs.

- Great for netbooks!
- Sleep and Hibernate now work properly
- Built-in search and indexing features are faster, supports sorting and grouping of search results
- Bluetooth and USB devices connect faster and more reliably
Contact the NUIT Support Center

Call: 847-491-HELP (1-4357)
Submit a request: https://itsm.northwestern.edu/SM7/ess.do
E-mail: consultant@northwestern.edu
IM: www.it.northwestern.edu/supportcenter/livechat.html