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Project Management

New OS Upgrade

# Overview

SWTC is planning on installing Windows 7 OS for the fall semester of 2011-2012. In order to accomplish this, many factors must come into play. Interviews must be completed and surveys may be circulated, in order to get a better understanding of what our campus wants. The main goal overall is to figure out the costs and time that is needed in order to accomplish this task over the summer break.

## Different Costs of Windows 7

First, before a new OS is even thought about, the costs of upgrading to Windows 7 must be reasonable and well planned out. Deciding on which version of Windows 7 can also become a struggle. What does each version contain and what are the costs of upgrading compared to buying the full version? Listed below are the comparisons of each version.

Windows 7 Home Premium:

* Includes both 32-bit and 64-bit versions. Be sure to make sure that you are ordering the right one. The 64-bit OS handles larger processing capabilities than does the 32-bit.
* By typing a word or two into the start menu search bar, programs and files can be located easier.
* If there is a program that you may want to access later, pin it to the taskbar. Simply click and drag it anywhere desired.
* Includes 90 days of Microsoft support services.
* Connect all PC’s to a single computer using homegroup.
* Easily share files, photos, and videos on your home network.
* Built in defense against spyware and other malware.

Those are the basics of Windows 7 Home Premium. The cost may vary depending on whether you choose a Windows upgrade or a full install.

A windows 7 Upgrade for Home Premium costs $119.99. The full version of Windows 7 Home Premium costs 199.99.

How does this compare to Windows 7 Professional? Well in Windows 7 Professional they have the same key features but with added features as well.

Windows 7 Professional:

Windows 7 Professional allows you to interact with any compatible device that has been connected to your computer. It has an advanced and powerful diagnostics and troubleshooters that will help in any problem you may have. Files can be backed up to a network location, flash drive, or DVD to keep them safe and secure. This version of Windows 7 has more advanced networking and it even allows the ability to use Windows XP mode on multiple programs. It is also recommended for business.

The costs of upgrading to Windows 7 Professional include a 199.99 upgrade and the full version costs 299.99.

Finally, what does Windows Ultimate have that the other two do not? Windows Ultimate has it all.

Windows 7 Ultimate:

 Key features include the following:

* BitLocker and BitLocker to go helps protect your files no matter where they are at.
* Multiple language support allows you to switch simply by logging off and back in again.
* Access corporate resources seamlessly when on the internet.
* Allows multiple back up of files.
* Run multiple business programs in Windows XP mode.

This version is said to help prevent theft or data loss. The cost of an upgrade is 219.99 and the full-version can be bought for 319.99.

## System Requirements

Before a new OS can be bought, we must compare their system requirements with the one we are wishing to buy. Sometimes, it may be cheaper just to buy a brand new computer with a built in OS. Listed below are the specifications for each OS. Comparing these to your own will determine if your computer has what it takes to run Windows 7. Also, an upgrade advisor is a free download that can tell you exactly what your computer is lacking.

Windows 7 Home Premium:

**Required Processor**
1 GHz or faster 32-bit (x86) or 64-bit (x64) processor

**Required Memory**
1 GB RAM (32-bit) / 2 GB RAM (64-bit)

**Required Hard Disk Space**
16 GB available disk space (32-bit) / 20 GB (64-bit); for the download version, an additional 3 GB is required

**Required Media Drive**
DVD/CD authoring requires a compatible optical drive

**Required Connectivity**
Internet access (fees may apply)

**Required Sound Card**
Music and sound require audio output

**Required Video Card**
DirectX 9 graphics processor with WDDM 1.0 or later driver

**Additional System Requirements**
Product functionality and graphics may vary based on your system configuration. Some features may require advanced or additional hardware.

Depending on resolution, video playback may require additional memory and advanced graphics hardware.

**Other System Requirements**
Additional requirements to use certain features: Internet access (fees may apply). Depending on resolution, video playback may require additional memory and advanced graphics hardware. For some Windows Media Center functionality, a TV tuner and additional hardware may be required. Windows Touch and Tablet PCs require specific hardware. HomeGroup requires a network and PCs running Windows 7. DVD/CD authoring requires a compatible optical drive. Music and sound require audio output. Product functionality and graphics may vary based on your system configuration. Some features may require advanced or additional hardware.

Windows 7 Professional:

**Required Processor**
1 GHz or faster 32-bit (x86) or 64-bit (x64) processor

**Required Memory**
1 GB RAM (32-bit) / 2 GB RAM (64-bit)

**Required Hard Disk Space**
16 GB available disk space (32-bit) / 20 GB (64-bit); for the download version, an additional 3 GB is required

**Required Media Drive**
DVD/CD authoring requires a compatible optical drive

**Required Connectivity**
Internet access (fees may apply)

**Required Sound Card**
Music and sound require audio output

**Required Video Card**
DirectX 9 graphics processor with WDDM 1.0 or later driver

**Additional System Requirements**
Windows XP mode requires at least 2 GB of RAM (32-bit)/3 GB RAM (64-bit) and 15 GB of available disk space.

Product functionality and graphics may vary based on your system configuration. Some features may require advanced or additional hardware.

Depending on resolution, video playback may require additional memory and advanced graphics hardware.

**Other System Requirements**
Additional requirements to use certain features: Internet access (fees may apply). Depending on resolution, video playback may require additional memory and advanced graphics hardware. For some Windows Media Center functionality a TV tuner and additional hardware may be required. Windows Touch and Tablet PCs require specific hardware. HomeGroup requires a network and PCs running Windows 7. DVD/CD authoring requires a compatible optical drive. Music and sound require audio output. Product functionality and graphics may vary based on your system configuration. Some features may require advanced or additional hardware.

Windows 7 Ultimate:

**Required Processor**
1GHz or faster 32-bit (x86) or 64-bit (x64) processor

**Required Memory**
1GB RAM (32-bit) / 2GB RAM (64-bit)

**Required Hard Disk Space**
16GB available disk space (32-bit) / 20 GB (64-bit). For the download version, an additional 3GB is required.

**Required Media Drive**
DVD/CD authoring requires a compatible optical drive

**Required Connectivity**
Internet access (fees may apply)

**Required Sound Card**
Music and sound require audio output

**Required Video Card**
DirectX 9 graphics processor with WDDM 1.0 or later driver.

**Additional System Requirements**
Windows XP mode requires at least 2 GB of RAM (32-bit)/3 GB RAM (64-bit) and 15 GB of available disk space.

Product functionality and graphics may vary based on your system configuration. Some features may require advanced or additional hardware.

Depending on resolution, video playback may require additional memory and advanced graphics hardware.

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## Looking at the Big Picture

Once Windows Specifications have been met, there are still major steps before deciding on whether you should buy it or not. Cost is a major factor in our campus decision.

Surveying costs:

I have compiled together some estimates on sending out 25 surveys to students.

With stamps being .45 a piece, I knew I would need at least 25 of them to send through the mail. I also would like to include a prepaid return envelope in order to successfully receive my surveys back.

The costs include:

50 stamps – 25 to mail and 25 that will be send back with the survey

Surveys and cover letters printed in black and white – 10 cents each

Envelopes

Paper

Costs:

 .45 cents a stamp x 50 stamps $22.50

 Cover letters - .10 cents \* 25 cover letters $2.50

 Surveys- .10 cents \* 25 surveys $2.50
 Envelopes $5.00

 Paper $5.00

Grand total: $37.50

Additional costs for software: $200

I had estimated a cost for this in case these surveys would be mailed out. The next step is to figure out upgrade cost involved.

Upgrade Costs:

There are approximately 200 computers SWTC is upgrading this fall semester. Each upgrade is expected to take at least 30 minutes. There are typically twenty computers in a room.

1 computer at a time: 30 minutes \* 20 computers = 2 computers/hour

An entire room could be completed in 10 hours.

Computer 200 could be completed in 100 hours or 13 days approx.

4 computers at a time: 4 completed per each half hour and 8 per each hour

8 highly trained IT-Networkers- There are two at 1 computer.

An entire room could be completed in 2.5 hours.

Computer 200 could be completed in 25 hours or 3 days approx.

Labor Costs:

How much will hiring someone cost? This is a very important decision. Maintaining a cost budget can become very intense.

Here are the estimated costs of hiring only one person.

IT-Networker estimated labor cost: $10/hour

Estimated hours per day: 8 hours

Daily pay: $80

Since Networkers need a break as well, the 13 days it take 1 person to install all computers I have added 4 more days onto that since they probably will not be working on the weekends.

Daily pay: $80 \* 13 working days = $1,040 just to install the OS.

Estimated costs of hiring 8 people:

Labor Cost: $10/hour

Estimated hours per day: 8 hours

Daily pay: $80

Daily pay: $80\*8 people = $640

$640 for 8 people \* 3 working days = $1,920.

Time Management

In order to figure out how many working days this will take to complete, I will need to know the time it takes to complete each task.

I have estimated them as followed:

* Interviewing will take 30 days as the dean will have to be contacted, staff may be interviewed, and I will have to give time for my people to collect the surveys and gather the information.
* The individual upgrade will take 13 working days and 17 total days.
* The 8 It-Networking students will take 3 working days for the upgrade and 7 total days.
* The software check will take approximately two weeks to complete since all the software will have to be tested for compatibility.
* Running a virtualization on a machine may take up to one week.

## Piecing it all Together

Now that I have identified the major costs involved let me go through the cost of just one person doing it compared to 8 people.

I have decided to use the Windows 7 Professional since it incorporates Windows XP mode and because it has many features required for a business.

One person costs include:

Windows Professional Update Cost: $119.99

Software Costs: $200.00

Survey Costs: $37.50

Labor Costs including testing:

21 days \* $80.00 per working day = $2,720

Grand Total: $3,077.49

30 days of interviewing, 17 upgrade days (13 paid upgrade days), 14 days of Software checking, and possibly 7 days of software virtualization: 68 days to complete.

8 person update costs include:

Windows Professional update cost: $119.99

Software Costs: $200.00

Survey Costs: $37.50

Labor Costs including testing:

21 days \* $640 per working day = $15,360

Grand Total: $15,717.49

30 days of interviewing, 7 upgrade days (3 paid upgrade days), 14 days of Software checking, and possibly 7 days of software virtualization: 58 days to complete.