

# CYBO@NEWS



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**Windows 7** is the latest version of Microsoft Windows—a series of operating systems produced for use on PCs, including desktops, laptops, netbooks, tablet PCs and media center PCs. Windows 7 was released less than three years after the release of its predecessor, Windows Vista. Windows 7's server counterpart, Windows Server 2008 R2, was released at the same time.

Unlike its predecessor, which introduced a large number of new features, Windows 7 is intended to be a more focused, incremental upgrade to the Windows line. This new OS focused on multi-touch support, a redesigned Windows Shell with a new taskbar (Superbar), a home networking system called HomeGroup and performance improvements. Some applications that have been part of prior releases of Windows, including Windows Calendar, Windows Mail, Movie Maker and Windows Photo Gallery, are not included in Windows 7. Some are instead offered separately as part of the free Windows Live Essentials suite.

On December 27, 2008, Windows 7 Beta was leaked onto the Internet via BitTorrent. According to a performance test by ZDNet, Windows 7 Beta beat both Windows XP and Vista in several key areas, including boot and shut down time and working with files, such as loading documents. Other areas did not beat XP, including PC Pro benchmarks for typical office activities and video editing. On January 7, 2009, the 64-bit version of the Windows 7 Beta (build 7000) was leaked onto the web. At CES 2009, Microsoft CEO Steve Ballmer announced the Windows 7 Beta,

build 7000, had been made available for download to MSDN and TechNet subscribers. Microsoft released Windows 7 to MSDN and Technet subscribers on August 6, 2009. The launch of Windows 7 has superseded everyone's expectations. It stormed ahead of *Harry Potter and the Deathly Hallows* as the biggest-grossing pre-order product of all-time.

### Goals

Bill Gates, in an interview with *Newsweek*, suggested that this new version of Windows would "be more user-centric". Gates later said that Windows 7 will also focus on performance improvements. The company was using a variety of new tracing tools to measure the performance of many areas of the Windows 7 on an ongoing basis, to help locate inefficient code paths and to help prevent performance regressions.

'Vista' users migrating to Windows 7 would not find the kind of device compatibility issues they encountered migrating from Windows XP. In fact, Windows 7 is a refined version of Windows Vista.

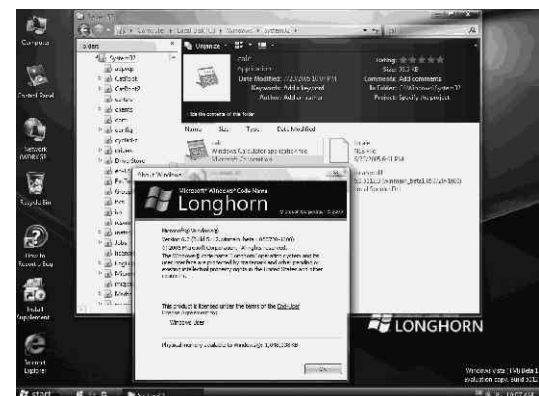
### New and changed features

Windows 7 has a number of new features, such as advances in touch and handwriting recognition, support for virtual hard disks, improved performance on multicore processors, DirectAccess, improved boot performance, and kernel improvements. Windows 7 adds support for systems using multiple heterogeneous graphics cards from different vendors, a new version of Windows Media Center, a Gadget for Windows Media Center, improved media features, the XPS Essentials Pack and Windows PowerShell being included, and a redesigned Calculator with multiline capabilities including *Programmer* and *Statistics* modes along with unit conversion. Many new items have been added to the Control Panel, including Clear-Type Text Tuner, Display Color Calibration Wizard, Recovery, Troubleshooting, Gadgets, Workspaces Center, Location and Other Sensors, Credential Manager, Biometric Devices, System Icons, and Display. Windows Security Center has been renamed to

Windows Action Center (Health Center and Solution Center in earlier builds), which encompasses both security and maintenance of the computer. Windows 7 also supports Mac-like RAW image viewing through the addition of WIC-enabled image decoders (to enable raw image thumbnails), previewing and metadata display in Windows Explorer, plus full-size viewing and slide-shows in Windows Photo Viewer and Window Media Center.

The taskbar has seen the biggest visual changes, where the Quick Launch toolbar has been replaced with pinning applications to the taskbar. Buttons for pinned applications are integrated with the task buttons. These buttons also enable the *Jump Lists* feature to allow easy access to common tasks. To the far right of the system clock is a small rectangular button that serves as the *Show desktop* icon. This is part of the new feature called *Aero Peek*. This button makes all visible windows transparent for a quick look at the desktop. In touch-enabled displays such as touch screens, tablet PCs, etc., this button is slightly wider to accommodate being pressed with a finger. Clicking this button minimizes all windows, and clicking it a second time restores them.

Additionally, there is a feature named *Aero Snap*, that automatically maximizes a window when it is dragged to either the top or left/right edges of the screen. This also allows users to snap documents or files on either side of the screen to compare them. When a user moves windows that are maximized, the



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system restores their previous state. This is also accomplished with keyboard shortcuts. Unlike in Windows Vista, window borders and the taskbar do not turn opaque when a window is maximized with Windows Aero applied. Instead, they remain transparent.

#### The Windows 7 taskbar.

For developers, Windows 7 includes a new networking API with support for building SOAP-based web services in native code (as opposed to .NET-based WCF web services), new features to shorten application install times, reduced UAC prompts, simplified development of installation packages, and improved globalization support through a new Extended Linguistic Services API. At WinHEC 2008 Microsoft announced that color depths of 30-bit and 48-bit would be supported in Windows 7.

Microsoft is also implementing better support for solid-state drives, including the new TRIM command, and Windows 7 will be able to identify a solid-state drive uniquely. Microsoft is also planning to support USB 3.0 in a subsequent patch, although support was not included in the initial release because of delays in the finalization of the standard.

Internet Spades, Internet Backgammon and Internet Checkers, which were removed from Windows Vista, were restored in Windows 7. Windows 7 includes Internet Explorer 8 and Windows Media Player 12.

Users also are able to disable many more Windows components than was possible in Windows Vista. New additions to this list of components include Internet Explorer, Windows Media Player, Windows Media Center, Windows Search, and the Windows Gadget Platform. Windows 7 includes 13 additional sound schemes. A new version of Virtual PC, *Windows Virtual PC Beta* is available for Windows 7 Professional, Enterprise, and Ultimate editions. It allows multiple Windows environments, including *Windows XP Mode*, to run on the same machine, requiring the use of Intel VT-x or AMD-V. Windows XP Mode runs Windows XP in a virtual machine and redirects displayed applications running in Windows XP to the Windows 7 desktop. Furthermore Windows 7 supports the mounting of a virtual hard disk (VHD) as a normal data storage, and the bootloader delivered with Windows 7 can boot the Windows system from a VHD. The Remote Desktop Protocol (RDP) of this OS is also enhanced to support real-time multimedia application including video playback and 3D games. That means that Direct X 10 can be used in a remote desktop environment. The three application limit will be removed from Windows 7 Starter.

#### Removed features

Few capabilities and certain programs that were parts of 'Vista' are no longer present or have changed, resulting in the removal of certain functionality. Some notable Windows

### Minimum hardware requirements for Windows 7

Architecture	32-bit	64-bit
Processor	1 GHz 32-bit processor	1 GHz 64-bit processor
Memory (RAM)	1 GB of RAM	2 GB of RAM
Graphics Card	DirectX 9 graphics processor with WDDM driver model 1.0 (For Aero)	
HDD free space	16 GB of available disk space	20 GB of available disk space
Optical drive	DVD drive (only to install from DVD/CD Media)	

Vista features and components have been replaced or removed in Windows 7, including the classic Start Menu user interface, Windows Ultimate Extras, InkBall, and Windows Calendar. Windows Photo Gallery, Windows Movie Maker, Windows Calendar and Windows Mail are not part of Windows 7, but are available free in a separate package called Windows Live Essentials.

#### Editions

Windows 7 is available in six different editions, but only the Home Premium, Professional and Ultimate editions are available for retail sale in most countries. The other editions are aimed at other markets, such as the developing world or enterprise use. Each edition of Windows 7 includes all of the capabilities and features of the edition below it. With the exception of Windows 7 Starter, all editions will support both 32-bit (IA-32) and 64-bit (x86-64) processor architec-

tures. The installation media is the same for all the consumer editions of Windows 7 that have the same processor architecture, with the license determining the features that are activated, and license upgrades permitting the subsequent unlocking of features without re-installation of the OS. Users who wish to upgrade to an edition of Windows 7 with more features can then use Windows Anytime Upgrade to purchase the upgrade, and unlock the features of those editions.

#### Hardware Requirements

Microsoft has published their minimum specifications for a system running Windows 7. Requirements for the 32-bit version are much the same as recommendations for premium editions of Vista, but the 64-bit versions are higher. Microsoft has released an upgrade advisor that scans a computer to see if it is compatible with Windows 7.

—Kumar Ankit (Student, MCA)

## History Behind Windows 7 : Microsoft's New OS

The story behind the development of the newly introduced Microsoft Windows 7 is quite fascinating. In 2000, Microsoft started the planning to follow up **Windows XP** and its server counterpart **Windows Server 2003** (both codenamed 'Whistler') with a major new release of Windows that was codenamed 'Blackcomb' (both codenames refer to the Whistler-Blackcomb resort). This new version was at that time scheduled for a 2005 release. Major features were planned for Blackcomb, including an emphasis on searching and querying data and an advanced storage system named **WinFS** to enable such scenarios. In this context, a feature mentioned by Microsoft co-founder Bill Gates for Blackcomb was "a pervasive typing line that will recognize the sentence that [the user is] typing in." Later, Blackcomb was delayed and an interim, minor release, codenamed Longhorn, was announced for a 2003 release.

By the middle of 2003, however, Longhorn had acquired some of the features originally intended for Blackcomb, including WinFS, the Desktop Window Manager, and new versions of system components built on the .NET Framework.



Microsoft Chief Bill Gates : Always dared to dream big

After the 2003 'Summer of Worms', where three major viruses (Blaster, Sobig and Welchia) exploited flaws in Windows operating systems within a short time period, Microsoft changed its development priorities, putting some of Longhorn's major development work on hold in order to develop new service packs for Windows XP and Windows Server 2003. Development of Longhorn was also 'reset' in September 2004.

As major feature work on Windows Vista wound down in early 2006, Blackcomb was renamed 'Vienna'. However, following the release of Windows Vista, it was confirmed by Microsoft on July 20, 2007 that "the internal name for the next version of the Windows Client OS" was **Windows 7**, a name that had been reported by some sources months before. On October 13th, 2008, it was announced that Windows 7 would also be the official name of the operating system.

Mike Nesh, Microsoft's vice-president of Windows product management said: "Simply put, this is the seventh release of Windows, so therefore Windows 7 just makes sense." And, experts and users say it is really far better than the Windows Vista.



# Birthday Greetings

## DECEMBER

1	Schandani Kumari	BBA	Banti Kumar Dubey	BCA	29	Priyam	MCA	
	Shilpi Singh	MBA	Nitesh Kumar	BCA		Jay Prakash Kumar	BCA	
	Sneha Paul	BCA	Priyanka Bharti	BCA		Brajesh Kumar Shukla	BBA	
	Anish Kumar	BSc-IT	12	Abhinik Prason	BCA		Rahul Kumar Srivastwa	BBA
	Amit Kumar	BCA		Abhishek Kumar	BCA	30	Sanjeev Thakur	BSc-IT
2	Ravi Kumar Shukla	BCA		Guddu Kumar	BSc-IT		Amresh Kumar Gautam	BSc-IT
	Anuj Kumar Chand	BCA		Manish Kumar Singh	BCA		Manish Kumar	BCA
	Varun Singh	BBA		Rohit Suman	BCA		Aman Kumar	BCA
	Mrinal Shekhar	BCA		Vivek Kumar	BSc-IT		Navneet Kumar	BSc-IT
3	Rajesh kumar	BSc-IT	13	Indrajeet Kumar	BBA	31	Rajeev Kumar	BBA
	Md. Mojahidul Haque	BCA		Tabassum Naz	BCA		Nitish Kumar Patel	BCA
	Anup Kumar Pandey	BCA	14	Amit Kumar Rai	BCA		Akshay Kumar	BCA
	Ranjan Kumar Singh	BBA		Rahul Gupta	BCA		Avinashi Kumari	BCA
	Jigyasa Kumari	BCA		Varun Kumar Maskara	BBA		Subhash Chandra Jha	MCA
4	Rahul Kumar	MBA		Dhananjay Kumar	BSc-IT		Jitendra Kumar	BCA
	Satya Vijay	BBA	15	Pradeep Kumar Pawan	BBA		Avdhesh Kumar	BCA
	Kuma Prateek	BSc-IT		Mukesh Kumar Ranjan	BSc-IT		Anjay Kumar	BCA
	Akhilesh Kumar Ojha	BCA		Md. Firoz Muslim	MCA		Md. Sheru Alam	BCA
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	Md. Saquib Kauser	BSc-IT		Alok Kumar	MBA		Ravikant Yadav	BCA
	Gautam Narayan Panday	BCA		Santosh Yadav	BCA		Sujeet Kumar Singh	BCA
	Rajesh Kumar Sinha	MBA		Ravi Prakash	BCA		Deepak Kumar	BCA
	Deepak Kumar Mishra	MBA		Amit Kumar Choudhary	BSc-IT		Rahul Kumar Shukla	BBA
	Pradeep Kumar Singh	BCA		Nitin Goswami	BSc-IT		Supriya Verma	BCA
	Ravi Kumar	BSc-IT	16	Nirmal Kumar Yadav	BCA		Santosh kumar	BSc-IT
	Rajeev Kumar	BCA		Alok anand	BCA		Amresh Kumar Gautam	BSc-IT
	Prabhash Kumar	BCA		Ashutosh Kumar jha	BCA		Manish Kumar	BCA
	Falak Naj	BSc-IT		Bharat Kumar	BBA		Aman Kumar	BCA
	Ajeet Kumar	BSc-IT		Vikas Kumar	MBA		Navneet kumar	BSc-IT
	Shivanshu Kumar	BSc-IT		Manisha Kumari	MCA			
6	Sonu Kumar	BCA		Sanjeev Kumar Ranjan	BCA			
7	Ashutosh Kumar	BCA	17	Suprabha	BCA			
	Satish Kumar	MBA	18	Chandan Kumar Tiwary	BCA			
	Shweta Priya	BBA		Gyan Bhaskar	BCA			
	Vikram Kumar	BCA	19	Pankaj Kumar	BBA			
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9	Saurabh Kumar	BCA		Sujeet Kumar	BCA			
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	Bikash kumar	BSc-IT		Kumar Rohit	BCA			
	Sumit Bharti	BSc-IT		Rakesh Kumar Singh	BCA			
	Priyanka Bharti	BSc-IT		Amit Kumar Singh	BSc-IT			
	Md. Faiyaj Ansari	MBA		Mudit Didwania	BBA			
	Navin kumar	BBA	22	Nikhil Kumar	BSc-IT			
	Mukesh Kumar	BSc-IT		Priyatesh Anand	BCA			
	Anuradha Kumari	MBA		Amresh Kumar Singh	BCA			
	Arun Kumar	BCA	23	Nitesh Kumar	BCA			
	Satish Kumar	BBA		Abhimanyu Kumar	BCA			
	Arvind Kumar Tiwari	BSc-IT	24	Dipika Gupta	BBA			
	Arvish Kumar	BCA		Sunil Kumar	BCA			
11	Neeraj	MBA		Priyanka kumari	BBA			
	Ankit Madhu	BBA	25	Ram Kumar Mahto	BBA			
	Kunal Kumar	BCA		Ajeet Kumar Shukla	MCA			
	Kumar Abhishek	BCA	26	Ravikant Singh Kushwaha	MCA			
	Riya Dutta Gupta	BCA		Sandeep Kumar	BCA			
	Shahna Yesrabi	BCA		Amit Kumar Verma	BCA			
			27	Lav Kumar	BSc-IT			
				Chitranjan Sharma	BSc-IT			
			28	Parmanand Kumar Ray	BBA			
				Ritu Priya	MBA			
				Bhirgu Ram	BSc-IT			
				Jatin Verma	BBA			
				Preet Kumar Yadav	BCA			
				Amit Ranjan	BCA			
				Priya Sinha	BSc-IT			

### 11 THINGS YOU'LL NEVER LEARN IN SCHOOL

- I Life is not fair—get used to it.
- II The world won't care about your self-esteem. The world will expect you to accomplish something BEFORE you feel good about yourself.
- III You will NOT make 10 Lakhs a year right out of high school. You won't be a vice president with car phone, until you earn both.
- IV If you think your teacher is tough, wait till you get a boss. He doesn't have tenure.
- V Flipping burgers is not beneath your dignity. Your grandparents had a different word for burger flipping they called it Opportunity.
- VI If you mess up, it's not your parents' fault, so don't whine about your mistakes, learn from them.
- VII Before you were born, your parents weren't as boring as they are now. They got that way from paying your bills, cleaning your clothes and listening to you talk about how cool you are. So before you save the rain forest from the parasites of your parent's generation, try delousing the closet in your own room.
- VIII Your school may have done away with winners and losers, but life has not. In some schools they have abolished failing grades and they'll give you as many times as you want to get the right answer. This doesn't bear the slightest resemblance to ANYTHING in real life.
- IX Life is not divided into semesters. You don't get summers off and very few employers are interested in helping you find yourself. Do that on your own time.
- X Television is NOT real life. In real life people actually have to leave the coffee shop and go to jobs.
- XI Be nice to nerds. Chances are you'll end up working for one.



## ‘INFOCOM 09-10: BIHAR PLUGGED IN’ : A REPORT

In a quest to drive the power of ICT for the development of Eastern India, the first ever Information and communication Technology Exposition, ‘INFOCOM 09-10: BIHAR PLUGGED IN’ was held in Patna, Bihar on November 12th and 13th, 2009. The event was held under the banner of Businessworld and the Telegraph in association of the Govt. of Bihar. Among others, Cybotech Campus too was an associate sponsor of this ambitious event.

The ‘Infocom 2009-10: Bihar Plugged In’ was inaugurated by Chief Minister Shri Nitish Kumar. He said that his government had decided to accord industry status to the IT sector: a policy for which will be unveiled soon. Chief guest on the occasion, Shri Nitish Kumar set in motion the two-day conference-cum-exhibition in the presence of noted entrepreneurs, investors, academics and IT professionals from across the country. He said that Bihar Govt. will soon have its IT policy to look after the concerns of industry.

The Chief Minister said, “Today, our government is winning national awards in e-governance. Our registration offices and administrative units even at the grassroots level stand connected to the web world.” He invited entrepreneurs and investors to open shop in Bihar. Promising security profit and a ‘state full of talent’.

Deputy CM Shri Sushil Modi informed the gathering how the present government was in the process of building IT infrastructure and preparing a pool of IT professionals. He conceded that Bihar had remained backward because it had failed to reap the benefits of the Green Revolution. “But we are determined to make it to the top in the IT sector,” he said, dwelling at length on how the state was striving hard to make its offices ‘paperless’.

State IT minister Shri Anil Kumar detailed the vision of the State govt. IT principal secretary Shri C.K. Mishra said how Bihar, once at the bottom of the Centre’s development pyramid, was climbing to the peak. President of TIE, Patna, and spokesperson of Bihar IT Association Shri P.K. Sinha summed it up.

He said his association was keen to work for advancement in the IT sector in state, given the changing environment of investment.

During the Seminar Shri Shishir M. Sinha, Group CEO, Bharti Airtel Group announced to bear the cost of adopting 1,000 state schools and impart communicative English and computer training to students in these schools.

The event was an initiative to showcase the potential of the state of Bihar to the outside world in a befitting manner and to give the state the opportunity to attract a surge of investments in the most happening sector. The objective of the event was to provide the Indian IT and Energy industry a networking opportunity with key policy makers, financial institutions, key industrial contributors and players with the technology enthusiasts in the region and create opportunities for beneficial dialogue. Cybotech Campus representatives used this opportunity to interact with large number of outside delegates to find ways to improve the quality of IT education.

### Lists of Activities & Holidays

<b>Nov. 06-14</b>	Internal Test of all courses (SMU & DOEACC)
<b>Nov. 10</b>	Last date for submission of DOEACC January 2010 exam. with fine.
<b>Nov. 15-20</b>	Assessment of SMU and DOEACC Semester July 08 Result
<b>Nov. 18-22</b>	Presentation and Group Discussion in All Batches
<b>Nov. 24-30</b>	Faculty feedback in all batches
<b>Dec. 01</b>	Worlds AIDS Awareness Day in association with Lions Clubs International (Distt. 322-E)
<b>Dec. (2nd Week)</b>	- Project /Viva - SMU Students (all Semesters)
<b>Dec. 20</b>	IA Marks Uploaded on official website for Parents /Guardians
<b>Dec. 25</b>	Christmas Celebration
<b>Dec. 27</b>	Seminar on Latest Technologies
<b>Dec. 28</b>	Campus Closed for Muharram
<b>Jan. 01</b>	New Year’s Day. Campus Closed

### 1st December : World AIDS Day

Started on 1st Dec.1988, World AIDS Day is about raising money, increasing awareness, fighting prejudice and improving education. This day is important in reminding us that HIV has not gone away, and that there is a lot still to be done.

According to UNAIDS estimates, there are now 35 million people living with HIV, including 2.5 million children. Around half of all people who become infected with HIV do so before they are 25 and are killed by AIDS before they are 35. A vast majority of people with HIV and AIDS live in lower- and middle-income countries. But HIV today is a threat to men, women and children on all continents around the world.

#### World AIDS Day 2009: Universal Access and Human Rights

The theme for World AIDS Day 2009 is *Universal Access and Human Rights*. Global leaders have pledged to work towards universal access to HIV/AIDS prevention, treatment and care,

recognising these as fundamental human rights. Valuable progress has been made in increasing access to HIV/AIDS services, yet greater commitment is needed if the goal of universal access is to be achieved. Millions of people continue to be infected with HIV every year. In low- and middle-income countries, less than half of those in need of anti-retroviral therapy are receiving it, and too many do not have access to adequate care services.

The protection of human rights is fundamental to combating the global HIV and AIDS epidemic. Violations against human rights fuel the spread of HIV, putting marginalised groups, such as injecting drug users and sex workers, at a higher risk of HIV infection. By promoting individual human rights, new infections can be prevented and people who have HIV can live free from discrimination.

World AIDS Day provides an opportunity for all of us—individuals, communities and political leaders—to take action and ensure that human rights are protected and global targets for HIV/AIDS prevention, treatment and care are met.

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All students are welcome to contribute their articles, writeups and opinions for publication in this CYBO@NEWS. Please submit your contributions/suggestions to **Mr. Abhijit Kumar** or mail the same to mailnews@cybotechcampus.com