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Ishare

Monthly Magazine

Department Of Computer Science

Ishare

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Editorial

We would like to wholeheartedly thank our honorable Chairman, Secretary, Executive Director and Principal for their continuous encouragement and constant support for bringing out the magazine. We profoundly thank our Head of Department for encouraging and motivating us to lead the magazine a successful one right from the beginning. Ishare serves as a platform for updating and enhancing upcoming technologies in Information and Communication. We are grateful to all the contributors to this magazine so far. The magazine has been sent to almost 60 institutions in and around Tamilnadu. So far we have received feedbacks and appreciations from various institutions.

We would be very pleased to receive your feedbacks. Please send your feed backs to ksrcas.ishare@gmail.com

By,

Editorial Board

Content

Ten amazing science and technology innovations coming up in 2014

G.Krishnaveni.

II-BCA-'A'

Beam yourself across the world

The growth in video communication has been exponential. Skype now boasts 300 million users, and a 2012 Ipsos/Reuters poll revealed one in five people worldwide now frequently "telecommuted" to work. But Star Trek fans will be happy to hear that incoming technology will add a further dimension to international conference calls. Known as holographic telepresence, it involves transmitting a three-dimensional moving image of you at each destination – allowing you to converse as if you were in the room. One system from Musion, based in Britain, uses Pepper's Ghost, an effect popular with illusionists, to beam moving images onto sloped glass. Musion has already digitally resurrected rapper Tupac Shakur at a music festival. But full 3D holographic communication is not far behind – in the shape of the Polish company Leia. Named after the Star Wars princess, its Leia Display XL uses laser projectors to beam images onto a cloud of water vapour. The result is a walk-in holographic room, in which 3D objects can be viewed and manipulated from every angle. An IBM survey of 3,000 researchers recently named holographic video calls as one technology they expected to see in place in the next year or so.

Formula E racing

28 Dec 2013

- Virgin Galactic: the world's first spaceport
  - 31 Oct 2010
- Electric car racing launches in Rome
  - 03 Dec 2012
- Amazon drones: nine ways it could go horribly wrong
  - 02 Dec 2013
- 2014: The age of machine-based connectivity is high
  - 02 Jan 2014

If you think the atmosphere at a Formula 1 grand prix is electric, you're going to love the new motor sport starting next year. Formula E will see drivers racing around city-centre circuits - including London - in battery-powered electric cars. The new championship, which is backed by the FIA, motor racing's governing body, promises cars as sexy as those driven by Lewis Hamilton, Sebastian Vettel et al, but with lithium-ion batteries and electric motors instead of fuel tanks and pistons. And, while their top speed is expected to be 155mph, slower than Formula 1, the event will compensate with exciting street circuits and brightly-lit night events. The pit stops will be different too: with the batteries running out of juice after 20 minutes, drivers won't just change their tires, they'll jump into new cars. The season is scheduled to start on September 13 in Beijing, with further races in the streets of Rio de Janeiro, Berlin and Los Angeles amongst others, before the final event in the centre of London on June 27 2015.

Shanghai's underground hotel

In an abandoned quarry at the base of China's Tianmenshan Mountain, 30 miles outside Shanghai, an extraordinary hotel is taking shape. At a cost of £345 million, the InterContinental Hotels Group is building a five-star resort that will boast two floors above the top of the 330ft rock face and another 17 storeys below ground level, two of which will be underwater. If construction goes

to plan, the first guests at "the world's lowest hotel" will check-in by the end of 2014.

Countdown to Mars

As it stands, if you felt the urge to make the 54-million-mile trip to Mars, it would take you nine months. That's around 39 weeks dealing with cosmic radiation, asteroids and wastage to your bones and muscles.

But VASIMR could change all that. Set to be tested aboard the International Space Station in late 2014 to early 2015, the Variable Specific Impulse Magnetoplasma Rocket is an experimental engine that, if it works, could get us there in three months.

To simplify enormously: existing chemical rockets only produce short bursts of speed as they burn a vast amount of fuel in one go, but at a relatively low velocity. By contrast, VASIMR takes a tiny bit of propellant (plasma), heats it to very high temperatures (two million degrees centigrade) using radio waves, then uses magnetic fields to push it out at extremely high velocities. The result is a steady, continuous acceleration to higher speeds, using far less fuel.

In theory. One current problem is the power required to heat the plasma. For short flights near Earth, solar panels suffice. But a mission to Mars would require a far bigger continuous power supply – and that means a wider initiative to build a nuclear reactor small and safe enough for the trip.

But manufacturers Ad Astra – lead by former NASA astronaut Dr Franklin Chang Díaz – say VASIMR is a game-changer. Better still, for the sci-fi fans among us, VASIMR even burns with the same bluish tint and luminescence of fictional spaceships engines. Which is what scientists like to call "the clincher".

More transparent shopping

For some people, it's about whether the factory workers are being treated ethically. For others, it's about the impact upon the environment. For a great deal more of us, it's about checking whether you're about to feed your child a Turkey Twizzler made out of freshly-slaughtered Romanian horse. Either way: in the age of

globalisation, knowing where your product has been made or grown, and its route to market, has taken on a new importance.

Embracing this shift in consumer priorities is Provenance (www.provenance.it) - a new type of search engine attempting to chronicle just that. From chocolate bars to jackets to shoes to chef's knives, Provenance tells you where a product is made, who the manufacturer is and what the product is made from.

But while Provenance includes vivid personal stories from farmers, workers, craftspeople and so on, there's no attempt to catch out corporations with their hands in the sweatshop, Roger Cook style. Instead, the site works in collaboration with everyone from small-batch producers to large multinationals in the hope that, by simply taking the mystery out of supply chains and worldwide commerce, the site will help shoppers make better choices. As well as gently forcing companies to improve their environmental and social impact.

Fecal bacteriotherapy

Not every emerging scientific advance is complex, or sophisticated. Or, for that matter, something you'd discuss at the dinner table. Fecal microbiota transplantation (FMT) – the process of transferring fecal bacteria from a healthy individual into a sick recipient - has been around since 1957. But it's only in the last decade that FMT has been seen as simple, safe, low cost, low risk, accessible, and, apparently, a permanent treatment alternative to increasingly high-strength antibiotics.

To explain: when a patient is given broad-spectrum antibiotics, the effect is to carpet-bomb all the healthy bacteria that live in our guts, leaving the patient open to infection by other bacteria - such as the potentially fatal Clostridium difficile. Since 2000, hypervirulent strains of C. difficile have developed, and now kill over 2,000 people a year in the UK alone. But FMT is the shock troops: a quick, easy way of restoring healthy bacteria into your guts to fight the infection. And fight they do: an incredible 89% of patients are instantly, and permanently, cured.

And new research suggests FMT might also offer cures for not just IBS, colitis, constipation and colonic ulcers – but also a growing number of neurological and

auto-immune conditions such as Parkinson's. In October it was announced FMT was now available in pill form, making it slightly more appealing.

GOOGLE-X IN TRENDS

Sangeetha.P

II-BCA-"A"

Google Glass is a wearable computer with an optical head-mounted display (OHMD) that is being developed by Google in the Project Glass research and development project. Google Glass displays information in a smartphone-like hands-free format that can communicate with the Internet via natural language voice commands. Glass is being developed by Google X, which has worked on other futuristic technologies such as driverless cars. That's the idea behind Google Project Glass, a concept device that puts your smartphone into a pair of slim glasses and projects its contents for some futuristic, voice-activated fun. a Project Glass user looks down and various Google icons magically appear before him - calendar, Google+, the time, temperature, camera, chat, location, and more.

WORKING CONCEPT:

(BONE CONDUCTION TRANSDUCER)sends audio directly to inner ear through bones of skull,eliminating need for headphone.(REALITY)normal vision and (OVERLAY)information appears as translucent image.

FEATURES:

Leaving the house, an alert notifies him of a subway disruption, so he switches to walking directions, which pop up arrows as he approaches a street on which he's supposed to turn. Later, the user has a video chat with a friend and shows off his ukelele skills. The beauty of Glass is that we're just barely scratching the surface of what Google's smart eyewear can, and eventually will, do. Remote control of home appliances by pairing them with an Xbee 802.15.4 WiFi radio and microcontroller. A user need only look at the intended appliance to bridge a connection made possible by an IR-transmitted device ID and view toggles for control…up coming features to be upgraded for Google glass is video chat.

Top 100 powerful CEO's in India

Dhansingh.V

I- BCA-A

Name	Company/Group	Rank	
		2010	**2009**
Ratan Tata	Tata Sons	1	1
MukeshAmbani	Reliance Industries	2	2
NR Narayana Murthy	Infosys Technologies	3	3
Anil Ambani	Reliance ADAG	4	4
Sunil Mittal	Bharti Group	5	9
AzimHashamPremji	Wipro	6	10

Kumar Mangalam Birla	AV Birla Group	7	11
Rahul Bajaj	Bajaj Auto	8	19
Anand G Mahindra	Mahindra & Mahindra	9	13
Vijay Mallya	UB Group	10	6
S Gopalakrishnan	Infosys Technologies	11	12
OP Bhatt	State Bank of India	12	17
ChandaKochhar	ICICI bank	13	14
Vinita Bali	Britannia	14	NA
VenuSrinivasan	TVS Motors	15	26
Shiv Nadar	HCL Technologies	16	25
UdayKotak	Kotak Mahindra	17	35
Harsh Goenka	RPG	18	42
A B Godrej	Godrej Group	19	27
Shashikant N Ruia	Essar Group	20	38
AM Naik	L&T	21	15
Ravikant N Ruia	Essar Group	22	NA
T S Vijayan	LIC	23	33

AdityaPuri	HDFC Bank	24	22
Kishore Biyani	Future Group	25	24
Shikha Sharma	Axis Bank	26	52
Subhash Chandra	Zee Telefilms	27	40
K P Singh	DLF Group	28	39
VineetNayyar	HCL Technologies	29	39
Rajiv Bajaj	Bajaj Auto	30	18
Manoj Kohli	BhartiAirtel	31	NA
K R Kamath	Punjab National Bank	32	NA
Deepak S Parekh	HDFC	33	7
G M Rao	GMR Infrastructure	34	44
GautamSinghania	Raymond	35	53
Hari Shankar Singhania	JK Tyre	36	NA
VineetNayar	Tech Mahindra	37	NA
NainaLalKidwai	HSBC	38	32
YogeshChanderDeveshwar	ITC	39	16
PawanMunjal	Hero Honda Motors	40	31

AnandBurman	Dabur	41	NA
NeerajSwaroop	Standard Chartered	42	84
NareshGoyal	Jet Airways	43	20
KiranMazumdar Shaw	Biocon	44	28
SP Hinduja	Hinduja Group	45	59
Shinzo Nakanishi	Maruti Suzuki India	46	77
Naveen Jindal	Jindal Steel	47	36
Jaiprakash Gaur	Jaypee Group	48	NA
N Chandrasekaran	TCS	49	NA
MA Alagappan	Murugappa Group	50	46
Nusli N Wadia	Bombay Dyeing	51	NA
M MMurugappan	Murugappa Group	52	NA
R Seshasayee	Ashok Leyland	53	49
Deepak Puri	Moser Baer	54	NA
YogeshAggarwal	IDBI	55	78
Ajay G Piramal	Piramal Enterprises	56	91
PM Telang	Tata Motors	57	NA

NitinParanjpe	Hindustan Unilever	58	62
Ratan Jindal	JSL	59	60
Venugopal N Dhoot	Videocon International	60	51
GautamAdani	Adani Enterprise	61	92
B N Kalyani	Bharat Forge	62	88
Habil F Khorakiwala	Wockhardt	63	NA
PRS Oberoi	East India Hotels	64	37
Sajjan Jindal	JSW Steel	65	56
R K Krishna Kumar	Tata Sons	66	NA
Analjit Singh	Max India	67	NA
P R Menon	Tata Power	68	63
Suneel M Advani	Bluestar	69	NA
N Srinath	Tata Communications	70	NA
R S Sharma	ONGC	71	54
K M Mammen	MRF	72	34
Dilip S Shanghvi	Sun Pharmaceuticals	73	90
Anil Agarwal	Sterlite Industries	74	50

AtulSobti	Ranbaxy	75	NA
K Anji Reddy	Dr Reddy's Laboratories	76	41
Narendra K Patni	Patni Computer Systems	77	NA
K K Patel	Nirma	78	NA
Ramesh Chandra	Unitech	79	NA
T V Ramanathan	Exide Industries	80	NA
Percy Siganporia	Tata Tea	81	72
Amitabh Jhunjhunwala	Reliance Capital	82	NA
Sanjeev Aga	Idea	83	NA
S K Roongta	Sail	84	97
Malvinder Singh	Religare	85	67
Rajan Nanda	Escorts	86	NA
Ashok Sinha	Bharat Petroleum	87	73
SarthakBehuria	Indian Oil Corporation	88	NA
Debu Bhattacharya	Hindalco Industries	89	57
Harsh Mariwala	Marico	90	87

B C Tripathi	Gail	91	NA
Tulsi R Tanti	Suzlon	92	NA
Ajay Shriram	DCM Shriram	93	98
AtulPunj	Punj Lloyd	94	NA
Onkar S Kanwar	Apollo Tyres	95	81
ShyamBhartia	Jubilant Organosys	96	NA
B P Rao	BHEL	97	75
AshwinDani	Asian Paints	98	71
ArunBalakrishnan	Hindustan Petroleum	99	76
MeherPudumjee	Thermax	100	N

<u>E-Mail without internet</u>

M.Sarath kumar
I-BCA-C

Sometimes if we are in a hurry to send an e-mail on that time we may not have internet connection or we may in a no signal area. For that Google has created a new facility it's the OFF LINE E-MAIL.

Here after in offline itself we can use our e-mail with the help of using Google chrome search. Select offline e-mail from that link, and then install it in your pc.

https://chrome.google.com/webstore/detail/gmail-offline/ejidjjhkpiempkbhmpbfngldlkglhimk

Insert it in your search then a new tab will appear on the screen or you may create a new tab. the tab will have the offline Google mail icon then make a click at the icon now again a tab will appear. Select allow offline e-mail from it, below the window [e-mail options will be shown] select the required e-mail and then click continue.

Your mail will be open and now you are free to use your mail and all its services in off line itself, it has some extra apps like chat history from the menu.

<u>Satya Nadella</u>

M.Vivekkumar
III-B.COM(CA)"B"
(NEW CEO OF MICROSOFT COMPANY)

Satya Narayana Nadella is the chief executive officer of <u>Microsoft</u>. He was appointed CEO on 4 February 2014, succeeding <u>Steve Ballmer</u>. Previously, he was executive vice-president of Microsoft's Cloud and Enterprise group, responsible for building and running the company's computing platforms, developer tools and cloud services.

Early life

Nadella was born in Hyderabad, Andhra Pradesh, India, in a <u>Telugu</u> family to an <u>IAS officer</u>, B. N. Yugandhar, from a small village in Krishna District, Andhra Pradesh Who was a member of the <u>Planning Commission</u> during 2004–2009 under Prime Minister <u>Manmohan Singh</u>. Nadella attended the <u>Hyderabad Public School in Begumpet</u> before attaining a bachelor of engineering in Electrical and Electronics degree from <u>Manipal Institute of Technology</u>, <u>Mangalore University</u>, <u>Manipal</u>, Karnataka.

After moving to the US, Nadella earned an MS in Computer Science from the <u>University of Wisconsin–Milwaukee</u> and an MBA from the <u>University of Chicago</u> <u>Booth School of Business</u>.

Nadella said he "always wanted to build things." He knew that computer science was what he wanted to pursue. But that emphasis was not available at university. "And so it [electronic engineering] was a great way for me to go discover what turned out to become a passion," he says.

Career

Nadella worked with <u>Sun Microsystems</u>, as a member of its technology staff, prior to joining Microsoft in 1992.

In <u>Microsoft</u> he led the major projects including the company's move to the <u>cloud computing</u> and the development of one of the largest cloud infrastructures in the world.

Microsoft

Nadella worked as the senior vice-president of research and development (R&D) for the Online Services Division and vice-president of the Microsoft Business Division. Later, he was made the president of Microsoft's $19 billion Server and Tools Business and led a transformation of the company's business and technology culture from client services to cloud infrastructure and services. He has been credited for helping bring Microsoft's database, Windows Server and developer tools to its Azure cloud. The revenue from Cloud Services grew to $20.3 billion in June 2013 from $16.6 billion when he took over in 2011.

Nadella's 2013 base salary is nearly $700,000, for a total compensation, with stock bonuses, of $7.6 million. Satya Nadella played a major role in Microsoft's transition tocloud computing.

Previous positions held by Nadella include:

- President of the Server & Tools (9 February 2011 – February 2014)
- Senior Vice-President of Research and Development for the Online Services Division (March 2007 – February 2011)
- Vice-President of the Business Division

- Corporate Vice-President of Business Solutions and Search & Advertising Platform Group
- Executive Vice-President of Cloud and Enterprise group

On 4 February 2014, Nadella was announced as the new CEO of Microsoft, the third chief executive in the company's history.

Personal life

In 1992, Nadella married Anupama, daughter of his father's IAS batch mate, K.R. Venugopal. They have three children, a son and two daughters, and live in Bellevue, Washington.

Nadella is an avid reader of American and Indian poetry, and is fond of the game of Cricket, the sport was his passion growing up and he had played for his school's cricket team. He mentioned learning leadership and teamwork from cricket.

Born	Nadella Satyanarayana Chowdary+ 1967 (age 46–47) Hyderabad, Andhra Pradesh, India
Residence	Bellevue, Washington, US
Citizenship	American
Alma mater	University of Chicago Booth School of Business (M.B.A.) University of Wisconsin–Milwaukee(M.S., Computer Science) Manipal Institute of Technology(B.Eng)
Occupation	CEO of Microsoft and Cloud Computing head in Microsoft
Years active	1992–present
Home town	Bukka Puram, Anantapur district, Andhra Pradesh, India
Salary	$1.2 million
Net worth	$45 million
Predecessor	Steve Ballmer
Spouse(s)	Anupama Nadella

Children	3
Website	<u>Satya Nadella - Microsoft.com</u>

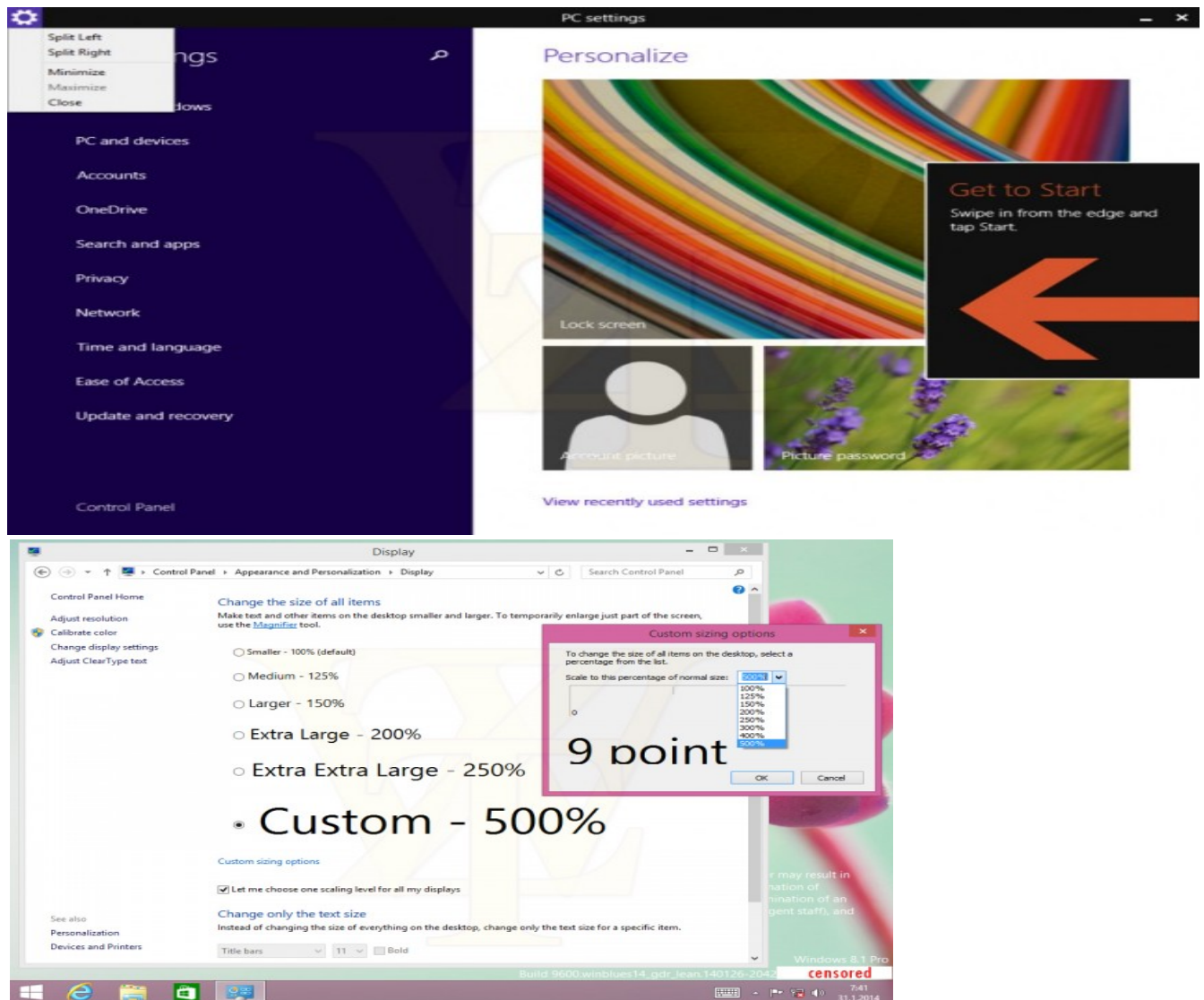# <u>Windows 8.1 Update package</u>

Vasanth.S
III- Bcom(CA)-B

Boots to the Desktop by default, allows Metro apps to be minimized

A build of Windows 8.1 Update 1 has leaked onto various file sharing websites. The build is a couple of weeks older than the one we covered in the story below, but most of the major changes are there (booting straight to the desktop, the menu bar on Metro apps to make them more mouse-and-keyboard friendly).

The latest build of Windows 8.1 Update 1 has leaked, revealing many of the changes that Microsoft hopes will make Metro less painful for desktop users. The biggest change appears to be that Windows 8.1 Update 1 will boot straight to the Desktop interface by default, reducing Metro to its rightful role as a full-screen Start menu. This, of course, would be a complete 180 from the original release of Windows 8, which defaulted to the Metro interface and lacked an easy way to see the Desktop after logging in.

Other notable changes in the leaked build of Windows 8.1 Update 1 are the addition of a power button to the Metro interface (no longer must you swipe in from the right-hand side!), and the option to "minimize" Metro apps, strongly hinting that Metro apps will be usable on the Desktop. (One of the screenshots shows the Windows Store icon on the taskbar, too.) Apparently, if you have a Windows tablet that's smaller than 8.5 inches, the power button won't be present, preventing you from accidentally turning your tablet off.

New UI scaling options in Windows 8.1 Update 1

It appears Microsoft might finally be tackling Windows 8′s issues with high-resolution displays, too. Windows 8 and 8.1 are rather limited in their support for high-resolution (150+ PPI) displays, offering a slider with just three UI scaling

options. Update 1 will now include three new scaling options: 200%, 250%, and Custom (up to 500%). This should mean that your Lenovo, Dell, and Samsung laptops with 3200×1800 displays will now actually be usable. This change should also help if you have a 24- or 28-inch 4K display (32-inch displays are generally okay due to their lower PPI).

But let's get back to the main point at hand: If Windows 8.1 Update 1 really does boot to the Desktop by default, we're talking about a huge change of direction for Microsoft. Despite massive pushback from consumers over the Metro interface, Microsoft has remained steadfast. If we're brutally honest, we actually agree that popularizing the Metro interface is vital for Microsoft's future, and that he Desktop's days are numbered — but *forcing* mouse and keyboard users to use the Metro interface was just plain stupid. It would have required almost no effort on Microsoft's behalf to make the Desktop UI the default for non-touchscreen devices.

For what it's worth, it seems the boot-to-Desktop-by-default feature is only present for some people who have installed the leaked version of Update 1. We wouldn't be surprised if this change doesn't make it into the final build — it really would be Microsoft's ultimate admission of defeat. We should also note that, despite early rumors, there's still no evidence that the old Start menu will make a reappearance. (Read: How to bring back the Start menu and button to Windows 8.)

This leak, like many other Windows leaks, come from the Russian website WZor. The full build string, in case you're wondering, is 9600.16606.WINBLUES14_GDR_LEAN.140126-2042, and it was compiled on January 26. Windows 8.1 Update 1 is a service and feature pack combo that's scheduled to arrive in March, ahead of Microsoft's Build conference in April (where we might hear about the next update, Windows 9).

Mobile Television

Venu Gopal Chetty P.V.S

I-B.Sc(CS)-B

Definition of Mobile TV:

Mobile TV is the wireless transmission and reception of television content - video and voice - to platforms that are either moving or capable of moving. **Mobile TV** allows viewers to enjoy personalized, interactive television with content specifically adapted to the mobile medium. The features of mobility and personalized consumption distinguish **mobile TV** from traditional television services. The experience of viewing TV over mobile platforms differs in a variety of ways from traditional television viewing, most notably in the size of the viewing screen.

The technologies used to provide **mobile TV** services are digitally based, the terms *unicast* and *multicast* are used in the same way they are used for **IPTV**. That is, unicasting is transmission to a single subscriber, while multicasting sends content to multiple users. These definitions also correspond to those given for similar Internet-based applications. For network operators, the challenge has become: 'How can large-scale delivery of high-quality multimedia to wireless devices be implemented profitably?' Although delivery of this type of content is technically feasible over today's existing unicast networks such as 3G, these networks cannot support the volume and type of traffic required for a fully realized multimedia delivery service (many channels delivered on a mass market scale). Offloading multicast (one-to-many) multimedia traffic to a dedicated broadcast network is more efficient and less costly than deploying similar services over 3G networks

Introduction of Mobile TV:

There are currently two main ways of delivering mobile TV. The first is via a two-way cellular network, and the second is through a one-way, dedicated broadcast network. Each approach has its own advantages and disadvantages. Delivery over an existing cellular network has the advantage of using an established infrastructure, inherently reducing deployment costs. At the same time, the operator has ready-made market access to current cellular subscribers, who can be induced to add mobile TV to the services they buy.

The main disadvantage of using cellular networks (2G or 3G) is that mobile TV competes with voice and data services for bandwidth, which can decrease the overall quality of the mobile operator's services. The high data rates that mobile TV demands can severely tax an already capacity-limited cellular system. Also, one cannot assume that existing mobile handsets can receive mobile TV applications without major redesign and replacement. Issues such as screen size, received signal strength, battery power, and processing capability may well drive the mobile TV market to design hand-held receivers that provide a higher quality of voice and video than is available on most current cellular handsets.

Many 2G mobile service operators and most 3G mobile service providers are providing VOD or streaming video. These services are mainly unicast, with limited transmission capacity. They are built upon the underlying technologies used in the mobile cellular system itself - GSM, WCDMA, or CDMA2000. An example of a technology designed to work on a 3G network is *Multimedia Broadcast Multicast Service* (MBMS), a multicast distribution system that can operate in a unicast or multicast mode. Mobile TV services over existing GSM and WCDMA cellular networks operates in the 5 MHz WCDMA bandwidth,
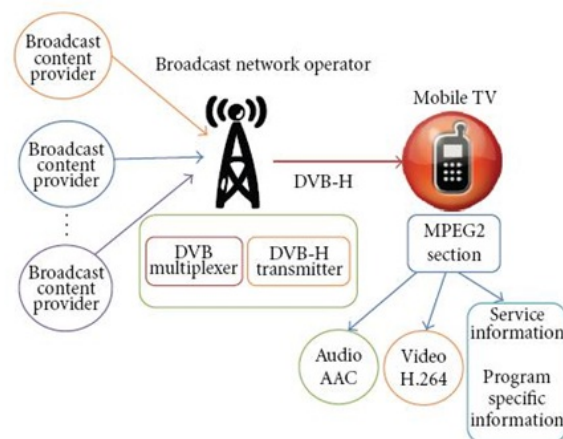

FIGURE 1: DVB-H Mobile TV Workflow.

and it supports six parallel, real-time broadcast streaming services of 128 kbit/s each, per 5 MHz radio channel

MEDIA FLO :

The MediaFLO system is an end-to-end mobile broadcasting technology that can deliver high-quality video to any mobile device. The "FLO" part of the name is an acronym for Forward Link Only. Forward Link is another term for the downlink connection on a mobile phone, meaning that the system only sends data to the mobile devices and does not receive any data back from it. Currently, the only commercially released devices that can receive the MediaFLO signal are mobile phones, but the technology is capable of sending the signal to any device equipped with a MediaFLO receiver. Qualcomm®, an innovator in wireless technologies, has demonstrated the broadcast of a MediaFLO signal on several mobile devices that are NOT tied to any cellular network.[5] In the US, Qualcomm will broadcast its service on what used to be UHF Channel 55, which is roughly the 700MHz frequency band.

FLO technology was designed specifically for the efficient and economical distribution of the same multimedia content to millions of wireless subscribers simultaneously. It actually reduces the cost of delivering such content and enhances the user experience, allowing consumers to "surf" channels of content on the same mobile handsets they use for traditional cellular voice and data services; also works in concert with existing cellular data networks; FLO effectively addresses the issues in delivering multimedia content to a mass consumer audience.

Unencumbered by legacy terrestrial or satellite delivery formats, this technology offers better performance for mobility and spectral efficiency than other mobile broadcast technologies, offering twice the channel capacity. The FLO service is designed to provide the user with a viewing experience similar to a television viewing experience by providing a familiar type of program -guide user interface.

WhatsApp For Android Can Now Hide 'Last Seen' Message

C.GnanaSekaran
II-B.Sc (CS)-"A"

After Whatapp's acquisition by Facebook for $19 billion, Whatapp is again in news for its new update that brings in a feature allowing Android users to hide their 'last seen' message from others. This feature was previously only available for iOS users, but now android users can take its advantage too. The update is not available on Google Play but you can download the app from the official Whatsapp website. To download these updates you should have an Android version of 2.1 or higher along with an unlimited data plan. Currently the updates are only available for Android mobile phones, not tablets.

The new update not only lets you hide your 'last seen' notification but also allows you to hide your profile picture and status from friends as well as from strangers. Many changes cannot be done by iOS users that are available on Android such as hiding or unhiding their visible status at any moment without having to wait for whole 24 hrs. The iOS version of Whatsapp also lacks the feature of hiding their profile picture and status from friends as well as strangers.

Many of us were eagerly waiting for this update to come. You can download the latest version of the app from the company's official website and get started.
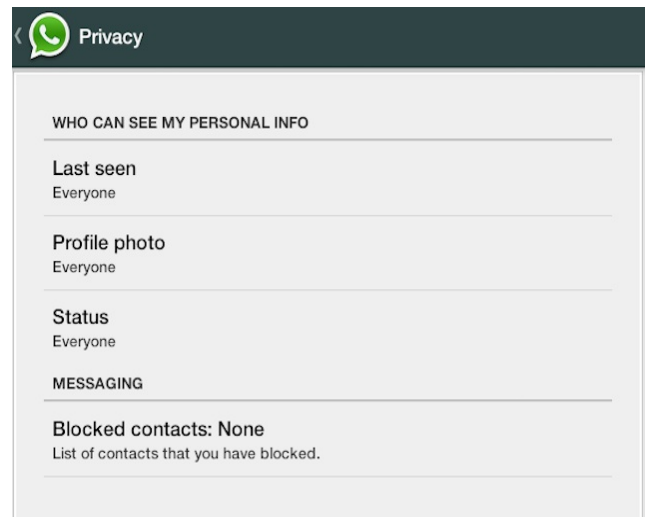
Google Unveils 3D Smartphone Platform Named 'Project Tango'

S.Prema,

Assistant Professor

Department of Computer Applications,

The California tech giant Google Inc. has announced a new research project named 'Project Tango' on Thursday, aiming to bring 3D technology to smartphones for developing potential applications like indoor mapping, gaming and helping visually impaired people to navigate. Google also said that Project Tango will provide prototypes to other developers to develop new and interesting application from this new technology.

Project leader Johnny Lee says that this project incorporates robotics and vision processing technology which will give human-scale understanding to a smartphone. The device (Smartphone) used in this project is equipped with sensors which measures 1.4 million measurements per second addition to this it also updates the position and rotation of the phone. 3D sensing chip 'Myraid 1' is packed inside the phone having low power consumption of few hundred mill watts which is bearable by a Smartphone battery, 'Myraid 1' is a revolutionary chip because of its low power consumption whereas 'Prime sense' chip used in Microsoft's Original Kinect draws a lot of power about 1 watt which is not suitable for Mobile phone battery.

Project Tango's primary purpose is the indoor mapping which simplifies our day to day life, For example you can capture dimensions of your home and furnish your

home accordingly. Issue of product being large or small for furnishing is resolved. Another application of this project is to help visually impaired people to navigate unassisted in unfamiliar indoor places. This technology is also used in gaming like playing Hide and Seek inside our home with our favorite character and customized background.

Partners in this project are researchers from the University of Minnesota, Washington University, a California based mobile vision processing company 'Movidius' which provides vision processing technology for mobile devices and processor platform. Movidius aims to mirror human vision on mobile or portable connected devices. Another partner in this project is German tech firm 'Bosch' and the open source robotics foundation.

Remi El-Quazzane chief executive of 'Movidius' believes Project Tango is groundbreaking platform and want to see innovations achieved by developer community.

How Can You Really Compress 1GB Into 1 MB ?

M.Kiran Kishore

I-B.Sc (C.S)-"B"

This is extraordinarily really attention-grabbing issue I found on internet therefore I feel I even have to be compelled to share with you guys we'll save ton of memory and if you had lower area in your memory card, hard-drive, or pen drive you'll use this trick to compress are available in a huge manner. How To Compress or Convert 1GBget in 1MB let American state tell you what's compression once we tend to compress a file or files it merge all the files in one are available in high compression rate therefore it save the memory. all the software's we tend to install in our laptop, all of them area unit compressed if you ever noticed they have ton of files and jointly further memory than the one file setup therefore if you'd

wish to merge all files in one file with high compression thus you would like to follow this post.

How to Compress or Convert 1GB File in 1MB

- First of all you need to download software to compress files that is KGB Archiver.
- So now install it in your computer.
- Choose an option to compress files and then click next.
- Select '**archive type**' keep it as KGB and then maximum compression level.
- Then you have to select the files or file to compress.

NOTE But there is one drawback of this .if you select maximum it will take more time to compress file just cause it compress file very slowly and with high compression rate.

Features of This Software.

- You can make Password protected compressed file
- It can extract automatically.Means it makes self-extracting archives.
- Unicode is supported in both User Interface and File Systems
- It can also support .zip and some other extensions.
- It supports many languages like English,Arabic,Spanish,Chinese etc.

Ten Strategic Tech Trends For 2014

Mrs.J.Mary Dallfin Bruxella

Assistant Professor,

Dept of CS

As 2013 wraps up, focus has already shifted to 2014. Surveying the IT landscape, Gartner analysts take a look at up-and-coming technology trends. Strategic solution

providers must factor these tech trends to plan their future business growth strategies.

3D printing

Gartner statistics predict 3D printing to grow 75 percent in 2014 alone, with the number of unit shipments doubling in 2015. While it is a cool technology, what is the impact for the channel? Gartner says that the buzz in 3D printing's consumer base will lead to it becoming a business solution that helps cut costs, improves products and speeds up manufacturing. Channel partners are pretty mixed so far on the adoption of 3D printing into their own businesses, but some are optimistic about its possibilities for opening up new high-margin product lines.

Smart machines

Smart machines, from self-driving cars to computerized personal assistants, will be the most disruptive in the history of IT through 2020. For that reason, there is a lot of success to be found for those who jump on board the trend early, it said. This applies for both individuals and enterprise users. Despite consumerization, smart devices will have a big impact on both the enterprise and consumer segments before ultimately settling in the consumer space.

Web-scale IT

What Gartner is calling Web-scale IT is changing the value chain in the cloud space through competition from big cloud players like Amazon and Google. Gartner said that enterprises should look to model themselves off of these cloud leaders, from designing the database center and facilities to architecting the cloud itself. Through a top-to-bottom imitation of large cloud players, enterprises can attempt to achieve the same scale, speed and agility.

Software-defined anything

As software-defined anything (SDx) grows, Gartner predicts that more and more standards and regulations will pop up over 2014. The research firm expects vendors in particular will be reluctant to adopt standards that will affect the bottom

line. However, on the bright side, it said the end consumer will be the benefactor of simpler and more efficient products at a lower cost.

The era of personal cloud

In what Gartner calls the shift to the era of the personal cloud, the PC will no longer take the lead in devices.Instead, users will balance a variety of devices that are connected through a personal cloud. The job of the solution provider will be to manage and secure the user's herd of devices through the cloud, Gartner said.

Cloud/client architecture

Increasing demand for the cloud is shifting the balance between the cloud and client architecture models. The increased pressure on networks is causing enterprises to shift the load to cloud and reduce storage footprint. Going into 2014, businesses will be looking to leverage the client device to reduce the network strain.

Hybrid cloud, cloud service broker

Hybrid is the name of the game for cloud in 2014. Even if working in the private cloud, enterprises should make sure they are ready to go hybrid in the future. Stepping in to take charge of this transition in 2014 will be the Cloud Services Broker (CSB). The 2014 hybrid cloud will be pretty static, but will get more and more dynamic as the market evolves and CSBs grow in the marketplace.

The Internet of Everything

The Internet has its tendrils in almost every piece of our lives, from our appliances to our mobile devices to our cars. John Chambers, CEO, Cisco, said he saw the Internet of Everything as a $14.4 trillion opportunity. The problem, Gartner said, is that the enterprise has yet to fully jump on board with the trend. It recommends that enterprises to improve their businesses by adopting four basic usage models— manage, monetize, operate and extend.

Apps

For mobile application environments, Gartner predicts the future lies in HTML5

and the browser due to continued JavaScript performance improvements. With more and more users wanting to work across multiple devices, Gartner recommended app developers work to create building blocks that can be assembled to fit the needs of different devices. Overall, it predicted that for 2014 there will be more popularity in smaller, more targeted apps than more comprehensive, one-size-fits-all apps.

Mobile device diversity, management

A side effect of increasing mobile technology, BYOD is doubling or tripling the mobile workforce, the Gartner study said. As a result, enterprises need to revisit their BYOD policies to adapt to a changing technology environment in the workplace. The study recommends putting policies in place but staying flexible as mobile continues to adapt.

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