



LISTENING TO BUSINESS, APPLYING TECHNOLOGY

Apple launches iPhone 6, Apple Watch

Apple launched the eighth generation of its iPhone. The new iPhone will come in two versions: The iPhone 6, with a 4.7-inch screen, and the iPhone 6 Plus, with a 5.5-inch screen.

Both iPhones will be powered by Apple's latest system-on-a-chip, the A8. It's a 64-bit chip forged on a 20 nanometer process. Apple promises 25 percent faster CPU performance and 50 percent faster graphics performances, but many of its real-world gains will come from a reduction in power consumption. Schiller said the chip is 50 percent more energy efficient. Apple has added a few new components to the A8 SoC, including a new M8 sensor and motion coprocessor, which now comes with a barometer sensor.

The speculation is over: Apple's long-rumored smartwatch is called the Apple Watch. Pricing starts at \$349 and it will be available in early 2015. Although the Apple Watch will have both a touchscreen and the ability to detect force, the key UI feature on the Apple Watch is the "digital crown," a button on the right side of the device. It looks like a traditional crown, but allows the user to pick options in menus without obstructing the screen. It also functions as the home screen button for the watch.

One of the unique hardware elements of the new Apple Watch is four sensors built into the backside of the device. These sensors include infrared and photosensors, which used together with other sensors, like a pedometer, can be used to assess a person's physical activity. These sensors are used in a new fitness app, which tracks progress over time. The Apple Watch and the associated Workout iOS app measures three aspects of activity: "Move," "Exercise" and "Stand." The "Move" metric, which is displayed as a ring, will give users a brief overview of how active they are. The "Exercise" ring will be used to measure brisk physical exertion. And the "Stand" ring will tell you how often you've taken a break from sitting. The Workout app supports running, walking and cycling. The Apple Watch will charge wirelessly through a new mechanism that combines Apple's magnetic MagSafe connector with inductive wireless charging.

Shellshock: 'Deadly serious' new vulnerability found

A "deadly serious" bug potentially affecting hundreds of millions of computers, servers and devices has been discovered.

The flaw has been found in a software component known as Bash, which is a part of many Linux systems as well as Apple's Mac operating system. The bug, dubbed Shellshock, can be used to remotely take control of almost any system using Bash, researchers said.

The problem is particularly serious given that many web servers are run using the Apache system, software which includes the Bash component.

Bash - which stands for Bourne-Again SHell - is a command prompt on many Unix computers. Unix is an operating system on which many others are built, such as Linux and Mac OS. The US Computer Emergency Readiness Team (US-Cert) issued a warning about the bug, urging system administrators to apply patches.

"Using this vulnerability, attackers can potentially take over the operating system, access confidential information, make changes, et cetera," said Tod Beardsley, a Cybersecurity specialists Rapid7 engineer. "Anybody with systems using Bash needs to deploy the patch immediately."

Security firms have suggested that there is evidence Shellshock is being used by hackers. "The vulnerability has already been used for malicious intentions - infecting vulnerable web servers with malware, and also in hacker attacks," said Kaspersky Labs.

Contact Galaxy to help you mitigate this vulnerability.



TechTalk

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The Future is Now

New Technology Uses Breath To Detect Deadly Diseases

Something as simple as your breath could be the most accurate diagnostic tool for everything from asthma to cancer. A space aged balloon may be the future of medical diagnostics. According to a new study something as simple as a patients breath could be the key to detecting deadly diseases.

The new generation of diagnostic tools may soon be able to sniff out all sorts of diseases using breath. That includes various cancers, liver disease, kidney failure, diabetes, asthma, and tuberculosis.

"Anything in the blood that is potentially volatile at body temperature, we can detect it in the breath. The limitation in the past has been because we didn't have the technology. Doctors detected severe heart failure, using breath, with 100% accuracy in one study. In another study they used breath to detect lung cancer, and help doctors monitor how the patient is responding to treatment. It's really the future of medical testing in general. We are just scratching the surface on the utility of breath testing in medical diagnosis," said Dr. Raed Dweik, director of the pulmonary vascular program at the Cleveland Clinic.

More research is still needed before these tests can replace body scans and biopsies, but Dr. Norman Edelman of the American Lung Association said that they are optimistic about the potential of this technology. "We could screen many, many more people for lung cancer and probably save many, many more lives," he said.

Doctors say the tests are quick, non-invasive, and cheaper than traditional testing. Dr. Dweik added that right now, the machines are large and cumbersome, but doctors are looking for ways to shrink them for everyday use. "Our goal is to build a miniaturized device that is very similar to the breath-analyser test. If we build that then eventually it can be tested at home or in the clinic or anywhere else," he said.

Experts say that there is hope that the tests could be used on everyone for earlier detection of disease, and the potential to save more lives.

Gadgets to make you a superhuman

Gadgets aren't just for your desk or pocket anymore. A whole new category of devices is being built for your body. Wearable gadgets- from Google Glass to the Apple Watch -- are here to stay. But it's not yet clear what purpose many of these wearable gizmos will serve. They're marketed as everything from second screens for your smartphone to fitness trackers to personal assistants.

Meanwhile, there's a less talked-about group of wearable gadgets that has a clear, futuristic purpose: To turn people into superhumans by amplifying their senses and abilities. Many of these gizmos are prototypes, but they paint a portrait of a future in which gadgets hack people -- not the other way around.



Sight: A group of British designers developed a mask called Eidos that allows people to see movement better. The device overlays what you're seeing now with images that it recorded just a few milliseconds ago. The effect is a kind of time-lapse video, only in real time. Eidos allows you to see

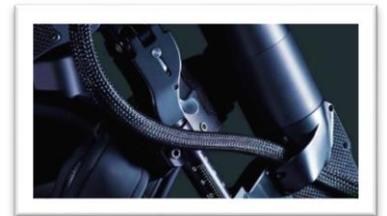
moving objects more clearly and determine patterns in them. For instance, a rower or golfer could trace her ideal stroke, or security professionals could better track suspicious activity.

Hearing: SoundHawk is a kind of a hearing aid on steroids. The wearable device doesn't just amplify all sounds like a traditional hearing aid -- it cuts through background noise, focusing on the speech of



the person you want to hear. An app lets you tune the device to listen for specific sounds you'd like to make louder (say, your wife), and reduces other sounds. And Eidos makes another mask that works like SoundHawk. It doesn't look nearly as inconspicuous, but it has the same basic function.

Strength: The Ekso body suit is a kind of robotic exoskeleton that gives people super strength. It's kind of like a real-life Iron Man suit. Perhaps one day Ekso will be used to make ordinary people into superhumans. Today, Ekso is marketed for people with traumatic injuries, including victims of strokes, spinal cord injuries or disease and brain injuries. The suit works by powering steps when the wearer shifts his or her weight. Motors push the legs forward



Health: Google, Microsoft and some other companies are developing smart contact lenses that measure the glucose levels in diabetics' tears. If successful, the contacts could help to eliminate one of the most painful and intrusive daily routines of diabetics. The prototype contacts are outfitted with tiny wireless chips and glucose sensors, sandwiched between two lenses. They are able to measure blood sugar levels once per second. Google is working on putting LED lights inside its lenses that would flash when those levels are too low or high.



Wear all these devices, and you can become a real-life bionic woman. Or a \$6 million man -- only for much less.



Technology Focus

The New State Of Enterprise Mobility

US\$181 billion. That's what the BYOD (bring your own device) and enterprise mobility market is forecast to be worth by 2017, according to a recent report. It's no surprise, with mobility increasingly becoming a centerpiece of IT strategy, as employees continue to clamor for the ability to work on the go and enterprises are starting to truly recognize the immense business benefits of a mobile workforce.



However, as adoption of BYOD and enterprise mobility grows, so too does the associated IT management challenge, complicated with increasing users demands. Today's employees require seamless access to a wide range of corporate resources and applications to get their work done on an increasing variety of devices. They expect LAN-like performance, even over mobile data networks, and high levels of availability. More importantly, they want their personal data and activity on these devices kept out of sight of the company. Amidst all that, IT departments want to ensure security is not undermined from the data center to each endpoint.

So how do you ensure your organization is equipped for the next generation mobile workforce?

Maintaining Control, Simply- The first key to meeting the new management challenge is to ensure the organization maintains firm control – over data, over access, over processes and over actions by users themselves. A simple, all-encompassing central point of control is required to provide organizations with the ability to consistently apply policies governing access, even in the face of new inventions, and provide a single location at which those policies and processes can be enforced and enabled.

Keeping The Machine Well-Oiled- From the data center to the mobile network to the device, all potential issues that could impact App performance and availability must be minimized and mitigated.

Securing All Bases- With enterprise mobility on the rise, mobile devices are increasingly being targeted by cyber criminals to carry out corporate attacks and steal corporate data. Malware that siphons data, intercepts transmissions, logs keystrokes and more is posing a real threat, and enterprises need to be on active defense. IT teams need solutions that can conduct a broad range of endpoint checks, as well as ensuring the necessary encryption and secure protocols are in place for data transmission.

No Compromises- The bottom line is, the future of enterprise mobility means no compromises. Employees will come to expect the same high level of access, availability, performance and security on the go as at their desks. Organizations that successfully tackle this will see that enterprise mobility not only has the power to transform IT, but business itself and the way we work.

Call Galaxy has skilled consultants to help you adopt BYOD without compromising on Security & Performance.

Tech News

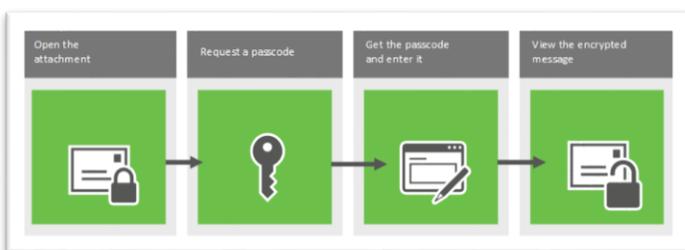
EMC Introduces 'Edge' Storage Products

Designed for large, highly distributed video surveillance environments, EMC rolled out the VNX-VSS100 storage system for the edge. The new VNX-VSS100 storage array complements EMC Isilon, a solution for systems that have a large number of cameras. As the EMC Isilon is scaled up to meet the surveillance needs, the VNX-VSS100 can record clusters of cameras and provide feeds back to the control center.



In addition, EMC announced an investment to expand the company's existing video surveillance interoperability and testing lab in the U.S. and establish a new lab in Asia, enabling customers to leverage technologies from video surveillance partners including Axis, Genetec, Verint, and Milestone and many other partners.

Microsoft Announces One-Time Passcode For Office 365 Message Encryption



Earlier this year, Microsoft announced Office 365 Message Encryption service that allowed users to send encrypted mail to anyone. Now they are announcing the release of One-Time Passcode. With One-Time Passcode, users need not to sign in with a Microsoft account to view an encrypted message.

Previously, when you received a message encrypted with Office 365 Message Encryption, you could view the encrypted message only by using a Microsoft account. Now, with the addition of the One-Time Passcode capability, you can view an encrypted message you receive without having to sign in with a

Microsoft account. If you have a Microsoft account, you now have the option to view an encrypted message by selecting one-time passcode instead of signing in with your account. This capability is now available to everyone in the respective tenants.

Tech News

Google launches initiatives in support of Digital India

Search giant Google is working with government to launch a nationwide contest for developing a mobile application for the PM's Office, an initiative to support the Digital India programme.

"MyGov, the citizen engagement platform of the Government and Google are collaborating to launch a nationwide contest to develop a mobile app for the PM's Office. The mobile app will bring the PMO to every citizen and the contest will showcase how Indians can build a world class app." Google said in a statement.



As part of supporting the Prime Minister's vision, Google will run a number of initiatives which also include programmes such as helping women get online, getting Indian SMEs online and showcasing India's rich heritage and culture online which will further promote the digital empowerment of citizens.

The search giant said it will continue to build a vibrant language ecosystem online and help the government transition into the increasingly 'mobile' India. To encourage digital literacy and Internet safety, Google is also introducing curriculum for schools, officials and elected representatives.

Google is working with the Department of Information Technology and other state governments to develop these initiatives.

Google India Vice President and Managing Director Rajan Anandan said India is already home to the third largest number of Internet users globally with 245 million users as of June 2014 and is on track to become the second largest user market by 2015 and a 500 million-user market by 2016.

"Yet, there are more than a billion people who will need to be brought online for India to realise the vision of a digitally connected, knowledge economy. Prime Minister Modi's Digital India programme will play a transformational role in achieving this," Anandan added.

IBM Pushes Open Power8 with Scale-Out Servers



If you need to handle massive amounts of computational data faster than you are now, IBM has rolled out new systems just for you. Big Blue's Power8 portfolio now offers systems that claim to deal with data at nearly 20 percent better price for performance metrics than comparable Intel Xeon v3 processor -based systems.

To be sure, IBM is pushing toward the big data computational brink in response to rising market demand. With 2.5 quintillion bytes of data generated every day, there's a clear challenge to build technology infrastructures powerful enough to gain actionable insights.

IBM pointed out that the servers most enterprises use today are built on proprietary processor technology and are being stretched to their limits in the face of cloud, mobile and big data demands. IBM is designing what it calls a data-centric approach to systems that takes advantage of the OpenPower Foundation's building blocks.

An Open Approach- The new IBM Power S824L servers are built on IBM's Power8 processor and the OpenPower stack so they can run data-intensive tasks while offloading other compute-intensive big data workloads to GPU accelerators that can run millions of data computations in parallel.

According to IBM, the new Power E870 and Power E880 systems are the highest performance 8-socket systems in the industry with support for up to 1,000 virtual machines per system. Enterprises can choose 32-, 40- or 48-processor cores and up to 4 TB per compute node. The systems will grow to 192 cores with more than 1,500 threads of compute power and 16 TB of memory and can run AIX, IBM i, and Linux operating systems.

IBM also announced a new Data Engine for NoSQL, which combines Redis Labs software, Altera's FPGAs, Canonical's Ubuntu Linux operating system, and IBM's CAPI-enabled Power System S822L with IBM's FlashSystem 840. On the analytics front, Big Blue announced IBM Data Engine for Analytics -- Power Systems

Edition, which combines Power8 scale-out systems with IBM's flash-based elastic storage technology and platform computing software.

Simplicity is achieved through server consolidation, enabling one Power8 server to be used instead of 24 Intel-based servers for a well-sized NoSQL store, according to IBM. That means enterprises can save a ton on infrastructure costs because of the smaller footprint and associated energy cost reductions. Customers can realize new opportunities and grow far larger NoSQL stores by leveraging the full 40TB of Flash within a single rack, according to Big Blue.

Microsoft to train 1 million women under tech initiative

Software giant Microsoft, under its initiative to bring more women into the Indian IT industry, along with partners will train and mentor 1 million women in the next 12 months. Microsoft India launched its 'Women in Tech' initiative, which aims to double the number of women IT professionals in India from the present one million in the next few years.

The initiative will include girl school students, young women students in STEM (Science, Technology, Engineering and Maths) colleges, women IT professionals and entrepreneurs. Women in Tech is designed to help aspiring IT professionals, by associating with them from the time they are in high school till they take up a IT job or start their own IT venture.

"We are incredibly excited to start this initiative. Our focus is to help girls take up IT as a career and also encourage more women to turn tech entrepreneurs," said Microsoft India Chief Evangelist Joseph Landes. Through the course of the next year, Microsoft will provide one million women access to awareness sessions, training and certification programmes and mentoring sessions, he added.

"Besides, Microsoft Ventures will mentor 30 women-led start-up companies and support them in building connections with the broader start-up community in India," Landes said.

Under the initiative, Microsoft will engage with 750,000 women in STEM courses in the next 12 months and will also train 250,000 women IT professionals. Besides, the programme will look towards building local communities for girls and women to meet, network and learn from each other by sharing ideas and learnings across the board.

Sports Focus

Big Data And Big Sports: How Data Is Changing The Future Of Sports

Big Data has reached into the innermost areas of our lives. The way we manage cities, shape communities and go about building personal relationships is changing thanks to Big Data. Sports is one other area that's increasingly witnessing changes in data acquisition, analytics and, subsequently, performance and revenue optimization through data-driven insights.

The benefits of Big Data in sports apply roughly to two groups: the fans and the teams, though advertisers and individual athletes stand to gain as well.

The Fans- The fans can be understood much better with Big Data. Social media tracking establishes trends and patterns that alert teams to changing perceptions. Predictive marketing can be done on a much wider scale, smartly bringing together past purchases and present attractive offers. Team apps help greatly to that aim. Accessible statistics make the game more fun as well. The IBM Slam Tracker was introduced at the 2014 French Open at Roland Garros. It showcased not only point-by-point winning odds of the contestants, but also displayed the players' real-time popularity on social media. Such number-crunching cannot influence the end result, but it adds a whole new layer to games that, unlike poker, couldn't boast real-time insights better than that the commentators' educated guesses.

The Teams- Some of Germany's success in the World Cup can be attributed to Big Data. The team made use of Match Insights, a tool developed by the German SAP, that allowed the coaches of national teams "to crawl through complex video and make it simple for them to know what they need to win". Match Insights utilizes data capture from on-field cameras and helps pinpoint the areas, or plays in which players need improvement, boosting the efficiency of practice sessions. Capturing data is key. Athletes train with sensors that monitor their heart rates, reaction times and distance covered. The data can be used to prevent injury in-game; crunched later on, this data can provide performance insights as well.

But you don't have to be a million-dollar team to have such statistics at your fingertips. Golfing apps are available to Android and iOS users alike; they gather statistics that show areas of their game that need improvement. Players can surmise which clubs work best, how their plays have varied over time, and their best plays. With all this, won't the "spirit" of competitive sports die away if numbers become all that's important? However effective, Big Data doesn't take away from the fact that what you see are real players with real sweat and real blood. It's getting more interesting, not necessarily more predictable.



Special Focus

Gartner Positions Panduit in the 'Visionaries' Quadrant of its Inaugural Magic Quadrant for Data Center Infrastructure Management Tools

Panduit Corp., the leading global provider of next-generation Data Center Infrastructure Management (DCIM) solutions, announced it has been positioned by Gartner, Inc. in the "Visionaries" quadrant of the first-ever Magic Quadrant for Data Center Infrastructure Management (DCIM) Tools. The report evaluated 17 different DCIM vendors against 16 criteria for completeness of vision and ability to execute.

"The Panduit mission is to change the face of data center infrastructure management," said Jack Tison, Panduit CTO. "We provide our customers with improved data center capacity utilization through actionable intelligence about their power, space, cooling, assets, and network connectivity to maximize return on assets (ROA). To this end, our SmartZone™ DCIM Solution offers real-time monitoring, alerting and visualization of facilities, network, and IT components and our recent acquisition of SynapSense allows us to provide an advanced means of cooling efficiency and control automation."

Over time, as new equipment and workloads are added to the data center, power, space and cooling become less optimized compared to the new technologies. A DCIM solution can be used to reduce operating expenses (OpEx) and potentially defer the capital expense (CapEx) of building out additional power, space, and cooling.

According to Tison, "DCIM will evolve to become an operating system for the data center, especially as new architectures and software-defined networks gain wider adoption. As DCIM evolves and customer needs change, Panduit customers will have the ability to implement DCIM in a cost-effective modular fashion, which provides the greatest ROI based upon their data center's level of 'DCIM maturity' in cooling management, asset tracking, or power monitoring, leading to a comprehensive capacity management solution."

Galaxy is the exclusive Implementation Partner for Panduit's Physical Infrastructure Management Solution in India.



About Galaxy

- ✦ One of the most respected Information Technology integrator of the best of breed products and solutions for Enterprise Computing, Storage, Networking, Security, Automation, Application Delivery, ERP and Business Intelligence.
- ✦ An ISO 9001:2008 organization, founded in 1987
- ✦ Committed team of over 200 skilled professionals
- ✦ PAN India presence
- ✦ Trusted IT services provider to more than a 1000 companies
- ✦ Experienced consultants certified on a wide spectrum of technologies
- ✦ The Galaxy Technology Innovation Centre, a state-of-the-art integrated hardware and software laboratory, allows customers a hands-on look at the latest storage, backup, security, application delivery and virtualization technologies.
- ✦ Customer list includes many of India's leading corporations, banks and government agencies
- ✦ Four business units collaborate to provide a full spectrum of services and ensure smooth projects. Together, they provide our customers with truly end to end professional IT Services.

Galaxy Business Solutions

System integrators of best of breed technologies to deliver solutions to the problems and challenges that confront enterprises

Galaxy Technology Services

Skilled pool of resources consistently maintains and delivers enterprise class service levels

Galaxy Network Solutions

One of India's most trusted active and passive networking specialists

Galaxy BI Consulting Services

Helps organizations to deliver and leverage business intelligence to create substantial business impact

NEWSLETTER COMPILED BY

Galaxy Office Automation Pvt. Ltd.

A-23/24, Ambika Towers, Ground Floor, Off Jijamata Road, Nr. Pump House, Andheri (E), Mumbai – 400093, India



Phone: 91-22-42187777

Fax: 91-22-42187760

E-mail: galaxyinfo@goapl.com

www.goapl.com

VISION

"To become the most preferred technology solution partner by listening to our customers, anticipating their needs and providing reliability, flexibility, responsiveness and innovative products and services. Achieving market leadership and operating excellence in every segment of our company."

MISSION

"Total customer satisfaction; through innovative insights, quality service and excellence in technology deployment."

VALUE PROPOSITION

"We understand the need of a common vendor for all your IT needs. Hence, we are committed to long-term partnerships by delivering on our commitments."

MD Speaks

"The past few days have seen two big releases in the mobility space. First came Google's Android One, the mobile phone platform specially designed for India - read cheap, reliable and long lasting (or sasta, majboot, tikao as we Indians would call it). Closely following this came the launch of Apple's iPhone 6, a top of the line phone costing about 10 times of what the Android One platform phones cost. Obviously not made for India, one would guess. Well, based on the pre-booking data and also the prices at which some grey market models are quoted, that may not be entirely true. This could well be the game changer for Apple to look at India as a big market at the lower end of the spectrum and Google to do the same at the higher end. Surely good times for the Indian consumer."

"Another great thing that is happening to the Indian consumer is the distribution of 3 billion USD to online shoppers. With the three biggest Indian 'e-tailers' giving extra-ordinarily huge discounts, it is obvious that they are using the big money invested in them to buy customers rather than improve infrastructure (as the subsequent delivery fiascos will soon show). That brings us to the question - How loyal can online shoppers be when better deals are just a click away? I would like to see investments in areas that address this question in order to sustain long term profitability of e-tailing."