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CIMdata News

BASF's, Dr. Svetlana Dimovski, to present at CIMdata's Workshop on Social Product Development & Collaboration

21 July 2015

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces that Dr. Svetlana Dimovski, BASF Corporation's Senior Manager for Innovation Excellence, will make a presentation at CIMdata's Social Product Development & Collaboration Knowledge Council Workshop. The workshop will take place in Louisville, Kentucky on October 7-8. In addition to Dr. Dimovski's presentation, the workshop will feature presentations from Local Motors and GE Appliances.

Dr. Dimovski's presentation, **Unleashing Innovation with External Partners: From a Corporate Initiative to a Global Movement**, will take a look at how large, established companies continuously innovate, and preserve tradition while reinventing the way they connect with the world. The presentation will draw on Dr. Dimovski's experiences at BASF, which this year is celebrating its 150th anniversary with a global co-creation initiative. The presentation will deliver insights on how to seed, grow, and unleash innovation to create a global co-creation movement in a large organization by leading from multiple positions. Key insights in BASF's journey to innovation excellence will be highlighted, such as: navigating complexity, leading innovation in an organizational matrix, creating space for everyone to experiment and contribute, synchronicity, alignment, getting to a tipping point, moving beyond the tipping point, creating flow and innovation movement, creating a Global Open Innovation Community, and aligning open innovation with communication and BASF's 150th anniversary.

The workshop will start during the afternoon of October 7 and will end on October 8. A personal tour of [First Build's Microfactory](#) followed by a networking dinner will part of the first afternoon's highlights. Throughout the workshop CIMdata's Social Product Development & Collaboration Knowledge Council and a group of leading-edge users will share real-world examples of how mature companies are inventing and adopting new collaborative partnership models for innovation and joint value creation. The workshop will be facilitated by CIMdata's Director for Collaborative Innovation & Social Product

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Development Consulting, Dr. Suna Polat and CIMdata's Practice Manager for Social Product Development & Collaboration, Dr. Ken Versprille.

For more information on the workshop visit <http://www.cimdata.com/en/education/knowledge-council-workshops/2015-spdc-workshop>.

About Dr. Svetlana Dimovski, Senior Manager for Innovation Excellence, BASF Corporation

Svetlana Dimovski, Ph.D. leads BASF Corporation's *Innovation Excellence and Open Innovation* program. BASF's Open Innovation team is focused on creating pathways, processes, and organizational structures that facilitate innovation partnerships with BASF. At BASF, Dr. Dimovski also leads a cross-functional Innovation Competencies team, whose mission is to create employees' learning experiences that help them grow their innovation acumen. Open innovation, innovation competencies, and other similar programs, are part of BASF's commitment to developing state-of-art innovation capabilities, and a culture of innovation excellence.

Dr. Dimovski is a frequent speaker about innovation and technology commercialization. Her interests include meditation, writing, learning, and purpose-inspired leadership. She is currently working on a new mindful leadership book.

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Presentation Topics Announced for CIMdata's PLM Road Map for the Aerospace & Defense Industry Featuring 3D CIC at PLM Road Map

23 July 2015

CIMdata, Inc., the leading global PLM strategic management consulting and research firm and Longview Advisors, Inc., organizer of 3D CIC announce the presentation topics for PLM Road Map for the Aerospace & Defense Industry featuring 3D CIC, to be held October 28-29 at The Westfields Marriott – Washington, Dulles.

PLM Road Map 2015 for the Aerospace & Defense (A&D) Industry featuring 3D CIC is the must-attend event for A&D industry executives and PLM practitioners globally—providing independent education and a collaborative networking environment where ideas, trends, experiences, and relationships critical to the A&D industry germinate and take root.

Day one of the event will focus on 3D Model-Based Design (MBD) for Product Definition, with emphasis on the following areas: advanced features, data retention, and compliance.

Presentations will be made on the following topics:

- How digital aircraft type certification can be achieved and become a standard industry practice.
- An OEM's perspective on the risks associated with achieving aircraft certification based on 3D MBD and how uniformity of practice can be achieved.
- The scope and key requirements needed to support high-volume global collaboration with fully automated ITAR compliance.
- Ways to preserve the benefits of 3D MDB through the use of advanced CAD

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features within the design team without increasing friction in the lifecycle process flows.

- How simplified user interfaces can be used to complement complex PLM systems.
- Future trends in standards for data storage and exchange.
- The retention of design data in a high value state over a 20-year development cycle.
- Alternatives for augmenting LOTAR to preserve the value of retained digital product definition for long-term design reuse.
- Ways in which the PLM platforms of the future will become the foundation upon which functional capabilities, data, and processes are enabled and executed.

Day two of the event will focus on Enabling a Model-Based Enterprise (MBE) with emphasis on the MBD/MBE vision, downstream integration, standards in MBD/MBE, quality, and inspection.

Presentations will be made on the following topics:

- The MBD/MBE vision and downstream integration in a large organization.
- Enabling system-of-systems PLM with digital thread support.
- Blasting into space using model-based methods.
- The new MBE capability index for DoD contractors and organizations.
- The aircraft supply chain – do models really do the trick?
- Real projects using STEP, product manufacturing information (PMI), and geometric dimensioning and tolerancing (GD&T).
- Classic mistakes in MBD.
- The evolution of MBE in the shipbuilding industry.
- Quality Information Framework (QIF), the missing standard for quality and inspection.
- Driving CAM and CMM using STEP AP 242 with PMI.
- The future of MBE and advanced manufacturing.
- What does MBD look like for organic navy manufacturing?

For more information visit: <http://www.cimdata.com/en/education/plm-conferences/2015-plmrm-ad-cic>

To view our agenda visit: <http://www.cimdata.com/en/education/plm-conferences/2015-plmrm-ad-cic/2015-plmrm-ad-cic-agenda>

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Acquisitions

Schneider Electric takes 53.5% of Aveva

20 July 2015

Aveva, the British engineering software company spun out of Cambridge University in the 1960s, has announced a deal with France's Schneider Electric that effectively amounts to a £1.3bn reverse takeover of the UK group, which had been viewed as a possible acquisition target after [its full year revenue and profits fell by double digits last year](#).

Aveva on Monday announced it had reached a deal with Schneider Electric to acquire the French company's industrial software unit - Schneider Software - in a complex arrangement that means Schneider will take a majority stake in the UK group.

Under the terms of the deal, Aveva will buy Schneider Electric's Schneider Software division on a "debt-free cash-free basis".

It will then receive from Schneider Electric upon completion of the deal £550m in exchange for new Aveva shares to be issued to Schneider Electric. Crucially this will mean that Schneider Electric, which is considered a bellwether of European industry, will own 53.5 per cent of the enlarged Aveva Group.

The two companies said that, based on Aveva's current share price - its shares closed at 1,772p on Friday - the c. 74 million Aveva shares to be issued to Schneider Electric as part of the deal have a current market value of around £1.3 billion.

In a statement to the London stock exchange on Monday, Aveva said that given the relative sizes of both companies, the transaction will be classified as a reverse takeover.

In 2013, Schneider Electric bought UK engineering group [Invensys for £3.4bn](#). The industrial software assets that will be transferred to the enlarged Aveva group under the deal will include the former Invensys assets.

Aveva and Schneider Electric said there is a "clear and compelling industrial logic and strategic rationale" for the deal, saying the combination of Aveva and Schneider Software will "create a global leader in industrial software, with scale and relevance in key-markets". Combined revenues and adjusted Ebitda are estimated at around £534m and £130m, respectively.

Richard Longdon, chief executive of Aveva, said:

The transaction will be transformational to Aveva, creating a global leader in industrial software, which will be able to better compete on a global scale. Through the acquisition of Schneider Software, Aveva will significantly expand its scale and product portfolio, diversify its end user markets and increase its geographic exposure to the US market, in line with our strategic goals.

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Synopsys Completes Acquisition of Seeker from Quotium

20 July 2015

Synopsys, Inc. has completed its acquisition of certain assets of Quotium (NYSE Euronext: QTE), including the Seeker® product and R&D team. The asset acquisition adds talent and technology that will

accelerate Synopsys' efforts in the software application security market and extend the company's Coverity® platform with interactive application security testing (IAST) functionality.

The Seeker solution helps businesses find high-risk security weaknesses while fostering collaboration between development and security teams. It exposes vulnerable code and ties it directly to business impact and exploitation scenarios, providing a clear explanation of risks. By accelerating adoption of security testing technologies into the software development lifecycle (SDLC), customers across industries such as financial, health, energy and retail can get to market faster with increased stability and certainty

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Company News

3DEXPERIENCE Center at Wichita State University Will Create and Drive New Technologies from Material Design to Additive Manufacturing

23 July 2015

[Dassault Systèmes](#) today announced that it has partnered with the National Institute for Aviation Research (NIAR) to open an innovation center at Wichita State University (WSU) to advance the use of new technologies such as additive manufacturing that will shape the future of the aviation industry.

The 3DEXPERIENCE Center will be part of WSU's Innovation Campus. Wichita, Kansas is considered to be the epicenter of aerospace education; WSU ranks first in the United States in industry expenditures on aerospace research and development, according to the National Science Foundation.

The 3DEXPERIENCE Center will focus on enabling advanced product development and manufacturing, next generation manufacturing materials and technologies using Dassault Systèmes' 3DEXPERIENCE platform and brand applications, including:

- Development of new engineered materials with BIOVIA applications (for example, Materials Studio),
- Simulation and optimization of materials, additive manufacturing processes and systems,
- Multi-Robotics Advanced Manufacturing (MRAM), with DELMIA multi-scale manufacturing, and
- Certification of the end-to-end process, integrating various levels of complexity and scale—from specific molecular material to the whole product, from specific manufacturing process to integrated and global production processes, and from system to systems of systems, with the 3DEXPERIENCE platform.

Additive manufacturing promises companies the ability to design any shape without restriction, giving the opportunity to create a paradigm shift in the industry. Manufacturers can reduce waste by up to 90 percent and eliminate mistakes which impact quality and cost.

“Additive manufacturing has high potential for aerospace and other industries, and goes far beyond just 3D printing. It requires an understanding of new materials down to the molecular level, how those materials perform under any scenario, how they can be expediently and cost-effectively manufactured and how each piece of the ultimate system can be certified,” said Michel Tellier, Vice President, Aerospace & Defense Industry, Dassault Systèmes. “The center will leverage the 3DEXPERIENCE

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platform's immersive and robotic applications and Dassault Systèmes' expertise in materials and simulation. Tomorrow's materials will push the evolution of airplane design, production and operation into a new era."

"Dassault Systèmes is an essential partner in WSU's Innovation Campus, a world class center where researchers, students and industry come together to experience their ideas," said John Tomblin, WSU vice president for research and technology transfer and NIAR executive director. "The 3DEXPERIENCE Center provides the capability to go from the concept, to a full experience of the idea, to the realization of seeing that idea being developed and manufactured – all made possible with the Dassault Systèmes platform. It will be a core enabler of additive manufacturing in aerospace as well as other industries."

Dassault Systèmes and WSU/NIAR have long collaborated on developing a common roadmap targeting aviation innovation. Most recently, the two entities worked together to finalize Dassault Systèmes' "Passenger Experience" industry solution experience launched in June 2015.

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CD-adapco STAR Academy Accelerates Multidisciplinary Simulation Learning Curve

20 July 2015

CD-adapco, the largest privately held CFD-focused provider of Computer Aided Engineering software, announced today the launch of STAR Academy, its innovative in-classroom and online training platform to help customers [learn](#) how to use CD-adapco simulation software in their CAE multidisciplinary engineering activities. STAR Academy can be accessed through the [Steve Portal](#), CD-adapco's online support environment.

STAR Academy is a revolutionary new [online](#) educational environment that allows engineers to master the use of CD-adapco's products from the comfort of their desks. STAR Academy offers expanded educational delivery options including e-learning and STAR-Lab technical skill development that provide users with learning opportunities to more fully understand CD-adapco software products. The innovative approach to training also incorporates the ["Flipped" classroom model](#) as a fundamental part of the learning process. This initial release of STAR Academy will focus on its most popular component, the e-learning modules which can be completed at each individual user's pace and can be scheduled before or after instructor-led training sessions.

"We are preparing CD-adapco [customers](#) to not only be more successful with CD-adapco products, but increase their knowledge and application of multidisciplinary simulation in their day-to-day work," said Aaron Bird, Ph.D., CD-adapco Senior Training & Instructional Design Manager. "Our program will progress users through the steps to take them from functional users of the software to expert champions of all CD-adapco products."

STAR Academy provides users with the knowledge required to make valuable engineering contributions to their customers as well as their organizations. Through STAR Academy, users are afforded the opportunity to engage in mastery learning of key concepts and skills to effectively conduct advanced multiphysics and multidisciplinary simulations.

Users can [purchase](#) and register for their courses in [STAR Academy](#), and then in a single account gain access to the e-learning modules, the training materials and other details about the courses. Customers can measure their competency in using CD-adapco products and can monitor their own progress toward

becoming an expert-level user.

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Dassault Systèmes Empowers Entrepreneurs and Startups with New SOLIDWORKS for Entrepreneurs Program

23 July 2015

[Dassault Systèmes](#) today announced the launch of the [SOLIDWORKS for Entrepreneurs Program](#) that will give early-stage businesses access to a complete license of the powerful 3D design applications that help millions of engineers and designers succeed through innovation. Powered by Dassault Systèmes' 3DEXPERIENCE platform, SOLIDWORKS applications deliver an intuitive experience in product design, simulation, publishing, data management and environmental impact assessment that accelerate design and manufacturing processes, while saving production time and costs.

By using SOLIDWORKS for their industrial design and manufacturing processes, entrepreneurs and incubators now have access to the most complete 3D solution, enabling them to innovate quickly. They can decrease time to market while collaborating easily with colleagues, vendors and customers due to a worldwide network consisting of millions of users. Early-stage businesses can now leverage the same capabilities to accelerate the concept-to-prototype process that has been used by MakerBot and [GRIT](#).

“Today’s Maker Movement is helping quickly convert concepts from independent engineers and designers into innovative, successful small businesses,” said Gian Paolo Bassi, CEO, SOLIDWORKS, Dassault Systèmes. “The next generation of entrepreneur needs the proper business and product design and development tools to grow. The SOLIDWORKS for Entrepreneurs Program demonstrates our commitment to helping engineers bring their innovations and design concepts to reality by providing SOLIDWORKS’ full suite of capabilities to easily design and manufacture products quickly.”

Dassault Systèmes has long provided SOLIDWORKS applications to a variety of startups and incubators in North America, such as [Mass Challenge](#), [Diagnostics for All](#), [Super Pedestrian](#) and [Design that Matters](#). Dassault Systèmes has also recently provided SOLIDWORKS applications to several female-led entrepreneurial ventures including [GoldieBlox](#), [Nomiku](#), [Greentown Labs](#) and Roominate. Now the program is formalized, enabling entrepreneurs from around the world to apply for the software.

To submit an application, go to [the program site](#). An application fee of \$200 is required, of which 80 percent goes to support the Rwanda High School Girls Scholarship Program that funds educational initiatives for female students at the [ETO Gitarama/Nyanza Technical School](#).

In addition to providing access to a software license of SOLIDWORKS, the program also offers potential co-marketing opportunities.

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Foundation for Tata Consultancy Services (TCS) intelligence systems centre laid

23 July 2015

Tata Sons Group chairman Cyrus P. Mistry on Thursday laid the foundation stone for F.C. Kohli Centre on Intelligent Systems (KCIS).

It is being built by Tata Consultancy Services (TCS) with an investment of Rs.20 crore at International Institute of Information Technology, Hyderabad. Named after TCS’s first CEO F.C. Kohli, who is

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considered as father of India's information technology industry, the centre will carry out high impact research in natural language processing, robotics and cognitive sciences. Terming it as memorable occasion, Mistry said it was good to see that two leaders in their fields — TCS and IIIT — have taken the initiative and together created a legacy worthy of F.C. Kohli. Hyderabad is a major technology hub and is growing further in importance when it comes to technology talent. I believe this is apt new location for this institution," Mistry said. "We are establishing another legacy for F.C. Kohli by creating world-class research facility in intelligent systems, an area of technology that is rapidly advancing and opening up fresh possibilities in areas such as machine learning and artificial intelligence," he said. Mistry recalled Kohl's association with the Tata Group for more than half a century. Kohli joined Tata Electric in 1951. "A visionary engineer, his talents were subsequently tapped to create and build TCS. His systematic efforts laid the foundations tone for the rise of Indian software industry," Mistry said. Even after retirement, Kohli is working with the Tata Group in a honorary capacity to find new ways to use computers for India's development and to address key problems like illiteracy and low agricultural productivity. Speaking on the occasion, Kohli said they were working to develop software in all Indian languages and hoped to complete the work in next two years. He also underlined the need to promote the domestic IT industry like China and to upgrade the technological skills.

TCS CEO and MD N. Chandrasekharan said setting up the centre was a significant initiative to promote futuristic research in several areas of intelligent systems like robotics, machine learning, natural language processing and cognitive systems. "Many of these technologies will be relevant in automation that we will get to see in years to come," he said. The KCIS, coming up with 60,000 square feet built-up area, will act as an umbrella organisation at the institute to both strengthen the existing groups and facilitate new activities in related areas. The new centre will try to attract projects and funding from other entities in the government and industry sectors, coordinate research in related domains across different centres of IIIT Hyderabad, as well as in the institute's research collaboration with other academic institutions in the country. Telangana Information Technology Minister K. Tarakarama Rao said the new state was looking forward to a deeper, stronger and more long-term partnership with Tata Group. He also said that Tata Group has second largest employee base in Hyderabad. The group has presence in all sectors, from hospitality to aerospace, in Hyderabad.

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ICAM and SIEMENS Sign PLM Solution Partner Program Agreement

20 July 2015

ICAM Technologies Corp. and SIEMENS have signed a PLM Solution Partner Program Agreement allowing SIEMENS to extend and enhance its product suite by offering ICAM's best-in-class Adaptive Post-Processing™ solution integrated within NX CAM.

Under the terms of this agreement, ICAM has developed a complete graphical user interface to NX CAM and its database allowing for the full integration of ICAM's Adaptive Post-Processing™ solution within NX CAM. Doing this now provides a familiar and efficient environment for NC programmers to concurrently post-process, optimize tool-path and verify G-code, all within NX CAM and in one simple process.

Adaptive Post-Processing™ is new technology developed by ICAM that changes traditional CNC programming methodology by creating a unique integrated environment for the traditional independent steps of post-processing, tool-path optimization and G-code simulation. This new methodology allows all these steps to be executed simultaneously permitting cross communication among them allowing for

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automatic toolpath corrections, all in one integrated process, with a single click execution.

This integrated solution allows for the in-process evaluation of feedback from the post-processor, machining simulator and ICAM's other tool-path optimization technologies to automatically create an optimized NC program for a target CNC machine. This occurs all in one step and in one process allowing NX users to automatically and efficiently reduce NC programming time and machining cycle times as well.

The iterative steps of the traditional serial method of tool-path creation, post-processing, machine simulation and G-code verification, most often generate errors leaving the tedious investigative work as to where the errors occurred in the hands of the NC programmer. ICAM's Adaptive Post-Processing™ solution not only eliminates these errors while reducing programming time, but also allows the programmer to adopt ICAM's philosophy to "create tool-paths for the part" as opposed to the traditional method of programming the part for the machine while worrying about its kinematics and collisions. Creating tool-paths while using Adaptive Post-Processing also eliminates the reprogramming of the part for a new target CNC machine.

"SIEMENS PLM Software is enthusiastic about the collaboration with ICAM. This agreement is the first step in the development of an integrated solution that will provide added value to our mutual customers," Steven Hard, Software & Technology Partnerships, SIEMENS PLM Software.

"Under the SIEMENS PLM Solution Partner Program, ICAM is excited to have its best-in-class technologies fully integrated within NX CAM and accessible by the SIEMENS customers and sales channels." says John Nassr, President of ICAM Technologies. "These are exciting times for significant changes in manufacturing productivity for all NX CAM users worldwide."

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Nemetschek Vectorworks Employees Volunteer at Renewal & Remembrance Event at Arlington National Cemetery

20 July 2015

Global design software developer Nemetschek Vectorworks, Inc., a member of the National Association of Landscape Professionals (NALP), will participate in today's Renewal & Remembrance event at Arlington National Cemetery. This annual event brings members from across the U.S. together to improve the grounds of the historic cemetery.

Entering its 19th year, Renewal & Remembrance is the largest landscape industry day of service in the country. The event is organized by the NALP (formerly the Professional Landcare Network), a lawn and landscape association representing more than 100,000 industry professionals who create and maintain healthy green spaces. Each year, the NALP coordinates hundreds of volunteers who donate their time mulching, upgrading sprinklers, cabling and installing lightning protection for the trees, pruning, planting, liming and aerating the soil at Arlington National Cemetery.

"Our members look forward to this opportunity each year to give back to the individuals who made personal sacrifices for their country," said Sabeena Hickman, CAE, NALP CEO. "We consider it a privilege to be able to volunteer our time and talents to improve the health and beauty of the grounds at Arlington National Cemetery, one of our nation's most sacred places."

For the sixth year in a row, Nemetschek Vectorworks employees and their families will gather during the Renewal & Remembrance at Arlington National Cemetery to lend a hand.

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"We feel fortunate to be located so close to this historical landmark and have the ability to make an impact on its preservation," said Eric Gilbey, PLA, landscape industry specialist at Nemetschek Vectorworks. "Every year, our participation is a humbling act of pulling up our sleeves to honor those who've fallen while defending our country."

Joining NALP to support the event are members of the Professional Grounds Management Society and the National Hispanic Landscape Alliance. The event receives support from lead sponsors Caterpillar, Inc. and New Holland Construction.

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NSK Europe is pleased to have teamed up with TraceParts to publish its CAD models

23 July 2015

NSK Europe, one of the world's leading manufacturers of bearings and linear motion technology for all industrial sectors, explains why the company teamed up with TraceParts to publish the CAD models of its parts.

"We were looking for a 3D solution to develop our digital catalog on a European scale. In response to a request from one of our key accounts, we entered into a partnership with TraceParts to produce our component library, available in different market standards and CAD formats via our own website (NSK Europe – www.nskeurope.com) and via the TracePartsOnline.net portal.

TraceParts' worldwide presence and excellent search engine optimization were key factors in our decision to collaborate on this project. The solutions provided by TraceParts increase our products' visibility on the market and, above all, provide design offices with simple, efficient design tools."

explains Mickael MIREK, Key Account Manager at NSK.

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TCS study shows over 80% of companies increased revenue by investing in Internet of Things

23 July 2015

Tata Consultancy Services launched a major new global study looking at the impact of IoT technologies across a wide range of industry sectors around the world.

The TCS Global Trend study on IoT, which surveyed 795 executives from large multi-nationals, identifies the huge potential for revenue increases from IoT, while also highlighting the significant challenges that lie ahead for businesses transitioning to the new model.

Commenting on the study, Natarajan Chandrasekaran, CEO and MD, TCS, said: "The age of IoT is well underway. The question is, whether businesses are ready to realize the full potential of this technology. Our latest global trend study found that leaders in using IoT technologies are using it to completely re-imagine their businesses by changing every aspect of them from business models and products to business processes and workplaces."

He added: "Now is the time for every leader in every industry to reimagine the possibilities for their businesses in a world of smart, connected 'things'."

A significant opportunity for revenue growth through IoT

Across the board, those companies investing in IoT are reporting significant revenue increases as a result of IoT initiatives with an average increase of 15.6 percent in 2014. Almost one in ten (9 percent) saw a

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rise of at least 30 percent in revenue.

Company executives still see the IoT as a growing area for businesses, with 12 percent identifying a planned spend of \$100 million in 2015 and 3 percent looking to invest a minimum of \$1 billion among the 795 companies surveyed. The report also shows that companies predict their IoT budgets to continue increasing year-on-year, with spending expected to grow by 20 percent by 2018 to \$103 million.

Companies at the very forefront of this drive for innovation through IoT have seen the biggest benefits from their investments. The top eight percent of respondents, based on ROI from IoT, report a staggering 64 percent average revenue gain in 2014 as a direct result of these investments. Currently the biggest business impact is that companies can offer their customers more bespoke products and services, yet by 2020 this will convert from marketing functions to increased sales, through adding considerable value to the customer.

This is reflected in the finding that the most frequent use of IoT technologies by companies is tracking customers through mobile apps, used by almost half of all businesses (47 percent). More than half (50.8 percent) of IoT leaders admit to investing in IoT to track their products and how these were performing, whereas this is only the case with 16.1 percent of the respondents with the lowest ROI from IoT.

Despite the encouraging data on IoT investment and its impact on revenue growth, the report also revealed that major challenges remain in realising the promise of IoT for businesses across all sectors. The report found that the three biggest factors holding companies back were:

Corporate culture: Respondents identified the ability to get employees to change the way they think about customers, products and processes was a major barrier;

Leadership: Having top executives who believe in IoT and are willing to invest time and resources is critical;

Technology: Questions around technology continue to loom large including handling Big Data; internal vs. external development; integrating IoT data with enterprise systems; and ensuring security and reliability.

The Healthcare sector has been hailed as having the greatest potential to benefit from the IoT, but remains one of the most underdeveloped industries due to regulatory restrictions and data security concerns that currently hinder innovation. The sector plans to spend just 0.3 percent of revenue in 2015, but will be increasing this investment by at least 30 percent by 2018. The healthcare market driven by the IoT is predicted to be worth \$117 billion by 2020.

In contrast, executives in the Industrial Manufacturing sector are reporting the largest increase in revenue from IoT, with an average 28.5 percent, followed by Financial Services (17.7 percent) and Media & Entertainment (17.4 percent). The Automotive industry has the lowest revenue gain with just a 9.9 percent increase.

The report, which looks at trends across 13 key industries, found that large-scale investment in IoT infrastructure and monitoring is not confined to those in Manufacturing, however, with the Travel, Transportation and Hospitality sectors planning to spend 0.6 percent of revenue this year. Media and Entertainment companies will spend 0.57 percent of their revenue on IoT in this year - significantly more than the 0.4 percent average and the 0.44 percent spend in Banking and Financial Services.

Revenue increases are also being enjoyed globally with all regions reporting double-digit growth in 2014, but US firms are reporting the largest gains of 18.8 percent, up from the previous year. In revenue terms, Europe as a whole is seeing a 12.9 percent increase, while Asia-Pacific reports a 14.1 percent

increase and Latin America an impressive 18.3 percent growth. In 2015, European firms plan to spend \$93.9 million on average, with French firms leading the charge (\$138 million on average), ahead of Germany (\$86.2 million) and the UK (\$80.9 million).

North American companies will spend 0.45% of revenue this year on IoT initiatives, while European companies will spend 0.40%. Asia-Pacific companies will invest 0.34% of revenue in the IoT, and Latin American firms will spend 0.23% of revenue. This has led to North American and European companies more frequently selling smart, connected products than are Asia-Pacific and Latin American companies.

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Event News

Altair Concludes 11th Successful Edition of Altair Technology Conference Series in India

20 July 2015

Altair Engineering concluded another successful Altair Technology Conference Series in Bangalore and Delhi. The events were scheduled between July 14-16, 2015, at The Ritz-Carlton, Bengaluru, and Le Meridien, New Delhi. The premier forum saw key industry leaders discuss latest engineering technologies for performance optimization, lightweight design, cloud solutions, electromagnetic simulation, and model-based development.

The conference included keynotes by eminent engineering leaders from the Aerospace and automobile industry verticals including Mr. Brian McMurray, Vice President, General Motors Technical Center India; Mr. Alok Nanda, General Manager, GE Aviation Engineering-India; Mr. Ravi Kharul, CTO, Endurance Technologies and Mr. C.B. Remesan, Sr. AVP, Eicher Engines.

Over 125+ engineering papers from India based auto OEM/supplier, Aerospace, Defence, CPG, Rail and other verticals were presented highlighting extensive use of Simulation for “Design in India”. The papers covered advanced topics like light weighting, crash/safety simulation, electromagnetic simulation, high-performance computing, concept driven simulation & application of 3D printing. Over 1100 engineers from 350+ organisation attended this event in Bangalore and 350+ engineers from 150 organisations in Delhi.

“India is a key market for Altair- our centre here feeds several of our global innovations. In the next few years we see India growing even further due to several factors like its strengthening market and government focus on design and manufacturing amongst others. Over the last decade, global ATC series has emerged as a premier forum for industry leaders to connect and share their experiences in engineering, design and high-performance computing. This year we are very happy with the outcome of ATC, as it has given us the opportunity to share important updates about our new capabilities and the latest versions of some of our key product offerings with our customers and partners here in India.” said Mr. James R. Scapa, Chairman & Chief Executive Officer, Altair.

Altair also engaged with CEO/CXOs in the transportation sector through the exclusive CXO thought leadership program – “The Next Gen Transportation Ideas for Emerging Markets”. The event brought together thought leaders from the industry for a panel discussion, to explore the demands of the next generation of automobiles. The discussion analysed the market trends, consumer expectations and initiatives required to tap the automotive industry’s tremendous market potential.

In Bengaluru, the session was attended by prominent panellists viz. Manu Saale, Managing Director and Chief Executive Officer, Mercedes-Benz Research & Development India; Gopichand Katragadda, Chief

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Technical Officer, Tata Sons; Nitin Ranade, Vice President, Mahindra & Mahindra; Chetan Maini, Technologist, Entrepreneur & Founder, Reva Electric Car Company; Tarun Mehta, Chief Executive Officer & Co-Founder, Ather Energy.

The Delhi edition of the panel discussion saw a congregation of industry veterans including Kamal Bali, Managing Director, Volvo India; Pankaj Dubey, Country Head & Managing Director, Polaris India; C.V. Raman, Executive Director-Engineering, Maruti Suzuki India, amongst others.

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Ember, the Autodesk 3D printer, and ArtCAM JewelSmith on show at TCT

22 July 2015

Delcam will demonstrate the new [Ember™ 3D printer](#) from Autodesk and the 2015 R2 version of [ArtCAM JewelSmith](#) at the TCT exhibition to be held at the NEC on 30th September and 1st October.

Autodesk developed the Ember printer as a reference device for [Spark](#), its open 3D printing platform, [to show how tightly integrated software and hardware can deliver an improved user experience](#). By using digital-light stereolithography to cure liquid resins, Ember creates complex, high-resolution objects, which is desirable for the casting of jewellery.

The Ember printer also offers a rapid build speed, having the capability to produce up to ten model rings in an hour or up to twenty model rings in less than 90 minutes.

ArtCAM JewelSmith has been developed specifically to allow jewellery manufacturers to increase productivity, improve quality and deliver new designs more quickly, by combining their craft skills and creativity with the power and precision of computer-aided manufacturing. The software includes a gem library, which can be added to by the user, and the KeyShot rendering system, which creates extremely accurate and lifelike images for either customers or retailers to view, or for the production of catalogues and other marketing materials.

ArtCAM JewelSmith makes it much easier to create complex designs, with a new ‘putty’ tool. This allows models to be edited by picking an area to be moved, swirled, pinched or puckered. It will be especially valuable when creating a series of variants on a repeating element in a design or subtly changing fine details within a model. In addition, many of the modelling options, including the new tool, now show the results of changes in real time.

Functionality currently under development at Delcam to be shown at TCT will allow the 2015 R2 release of ArtCAM JewelSmith to support 3D printing with Ember and other 3D printers.

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Gerber Technology Partners with 7thonline to Host Omnichannel Retail Innovation Seminar

20 July 2015

Gerber Technology has partnered with 7thonline, Inc. to host the Omnichannel Retail Innovation Seminar on July 21 at the Millennium Hongqiao Hotel in Shanghai. The seminar will feature presentations from Ben Lentini, vice president, planning solutions, with 7thonline, and Bill Brewster, vice president, general manager, Enterprise SW Solutions.

The event, organized by The Fashion Shop magazine, will explore omnichannel retailing trends in China and discuss how merchandise planning and product lifecycle management (PLM) best practices can help

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maximize profit opportunities and lower inventory risks.

Gerber's YuniquePLM™ is web-based product lifecycle management software that helps the fashion and apparel industries communicate effectively, accelerate workflows and eliminate errors.

Dubbed "online to offline" or O2O in China, omnichannel retailing is becoming one of the hottest retail concepts in the world's most populous market. As Chinese consumers become increasingly tech savvy and mobile-enabled, they demand a seamless shopping experience online and offline. Apparel retailers, who have traditionally focused on expanding their brick-and-mortar footprint to penetrate the Chinese retail market, are now investing in technology to better anticipate and fulfill consumer demand from their web outlets and physical stores alike. Upgrading merchandise planning and allocation capabilities for all selling channels, enhancing product development and responsiveness to market demand are key levers for retailers to execute successful omnichannel retail strategies and realize tangible business value.

7thonline is the leading provider of cross-channel merchandise and assortment management solutions to the retail and wholesale industries. "Chinese consumers are changing, and the market will reward retailers who can best fulfill their demand in merchandise design and offerings online and offline," said Max Ma, CEO of 7thonline. "We are excited to partner with Gerber and engage local industry leaders for such an important conversation in Shanghai, China's fashion and apparel capital. We look forward to sharing our expertise in cross-channel merchandise management and experience operating in China."

"The combination of merchandise planning and PLM is a natural step to achieving omnichannel retailing, and we are looking forward to partnering with 7thonline for this seminar," said Bill Brewster, vice president and general manager of Enterprise SW Solutions. "Our YuniquePLM was built for the industry by people from the industry, and integrates with all of the tools to enhance efficiencies from concept to production. PLM provides one central location for communication and collaboration."

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Vero Increases Presence At EMO

24 July 2015

Vero Software is increasing its presence at EMO, as three of its Italian resellers will be exhibiting different brands.

Vero Solutions are showing the latest VISI release, V21, containing more than 340 updates, focusing on advanced technologies both in its design and manufacturing aspects, featuring innovative, unique technologies included for the first time.

VISI has always maintained a leading position in managing large amounts of CAD data, and ease of use for definition of mould tools and assemblies. Visitors to EMO will see how these key features are extended in the new release to include dedicated tools for creating and managing multiple cavities within a single tool, enabling components to be modified quicker and more efficiently. Users will find higher levels of data and improved tools for creating geometry.

VISI 21 represents a release with significant CAM focus, including a fresh new look to the CAM Navigator, command consolidation, and new dialogue box consistency within all milling operations, dramatically simplifying toolpath generation. Feature tree grouping, management of multiple setups/features along with drag & drop capabilities within the tree, make the feature list and navigation extremely efficient. All features in the tree can be moved, edited, mirrored, and with a new dedicated

“undo” mechanism for CAM, user mistakes can be easily rectified.

Edgecam 2015 R2 is being shown on the ProCAM booth. Highlights include an upgrade to the multi spindle lathe set up, a new port machining module for its renowned 5-axis cycle, and significant time savings through the enhanced hole cycle. Overall, Edgecam 2015 R2 has around 50 items of new and enhanced functionality.

Enhanced machine tool configuration ensures manufacturers can avoid potential collisions while machining on lathes with main and sub spindles – the sub spindle locations can be repositioned using the new ‘Offset X location’ function. And with the increasing popularity in mill-turn machines, further evolution in Machine Tool configurations means users can now create ‘table-table,’ ‘head-table’ and ‘nutated table-table’ machines, including TNC control. .

And Taglio S.rl are demonstrating WorkNC V24, which further improves CAM operator productivity and machining quality. The new Rest Material Display has been enhanced, reducing machining preparation times. Other innovative features include symmetry functions, importing 2D features directly from native NX files, quicker collision calculations, and new functions for working on STL models.

Visitors to booth B12 in Pavilion 4 at EMO will see that WorkNC Version 24 features a set of standard collision detection functions covering the machining environment, tool holder, stock and machining centre. For 3-axis and 3+2 axis the WorkNC collision detection module indicates the shortest possible cutter than can be used. For 5-axis the Auto5 module determines the best possible conditions for a user-defined cutting tool. Special attention’s been given to optimise cutting conditions for features such as rubs and narrow slots.

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Financial News

Addnode Group: Interim Report, 1 January – 30 June 2015

21 July 2015

Summary of the second quarter, April – June 2015

- Net sales amounted to SEK 387.3 M (371.3), up 4 percent.
- EBITA amounted to SEK 25.0 M (28.3), an EBITA margin of 6.5 percent (7.6). Operating profit amounted to SEK 15.2 M (19.5), an operating margin of 3.9 percent (5.3). 1)
- Profit after tax amounted to SEK 8.7 M (14.4).
- Earnings per share after dilution amounted to SEK 0.29 (0.49).
- Cash flow from operating activities amounted to SEK 23.3 M (13.9).
- The Swedish Social Insurance Inspectorate selected e-service from Ida Infront.
- New Business Area Manager for the business area Process Management.

Summary of the first six months of the year, January – June 2015

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- Net sales amounted to SEK 819.1 M (782.7), up 5 percent.
- EBITA totaled SEK 58.7 M (62.6), an EBITA margin of 7.2 percent (8.0). 1)
- Operating profit amounted to SEK 39.6 M (45.9), an operating margin of 4.8 percent (5.9). 1)
- Profit after tax amounted to SEK 28.3 M (33.6).
- Earnings per share after dilution amounted to SEK 0.96 (1.13).
- Cash flow from operating activities amounted to SEK 63.8 M (85.7).

Significant events after the end of the period

- Addnode Group acquired on July 1, 2015 Transcat PLM- a German software supplier with annual net sales of SEK 450 M.

CEO's comments

The second quarter characterized by strategic acquisition We have growth of 4 percent in the second quarter of 2015, compared with the year-earlier period. However, earnings in general did not develop as expected. The business area Design Management business area displayed favorable growth for the quarter and earnings improved. The business area PLM did not achieve the same strong results as in the year-earlier period and the outcome was partially impacted by the effort to land our largest acquisition ever – Transcat PLM. Demand and earnings in the business area Process Management were stable. The business area Content Management improved earnings through consistent marketing activities and cost savings implemented in 2014 that have now reached full effect. Acquisition generates a leading PLM supplier in Europe We have per July 1, 2015 acquired Transcat PLM. This means that we now have a leading position in the European PLM sector and have more than doubled net sales and the number of employees in the PLM business area. Following the acquisition, the combined TechniaTranscat has more than 400 employees and sales of SEK more than 700 M (net sales pro forma for the 2014 fiscal year). We have a long-standing partnership with Transcat PLM and recognize the clear synergies and advantages for our customers that will be generated by a merger of the two companies. Both companies are leading in their geographic areas, sectors and technology areas. Together, we will now build a unique force in the European PLM market. The acquisition of Transcat PLM is yet another example of how we establish operations through acquisition in a new geographic market with an existing offering. Staffan Hanstorp, CEO and President. The information in this interim report is such that the Addnode Group must publish under the Securities Market Act and/or the Financial Instruments Trading Act. The information was released for publication on July 21, at 11.30 a.m.

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Arena Solutions Grows New Enterprise Customer Count 75 Percent in Q2 2015 over Same Period in 2014

23 July 2015

Arena Solutions today announced that the number of new enterprise deals closed in Q2 2015 grew 75 percent compared to the same period in 2014.

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This figure demonstrates the continued strength and growth that Arena is experiencing in the enterprise sector. The need to connect to a wider array of global suppliers, ease of deployment and the desire for solutions that do not require additional hardware and IT resources continue to accelerate the demand for cloud PLM solutions.

In addition, as the number of enterprise transactions has grown, so has the demand for Arena's professional services, which were up 110 percent in Q2 2015 over the same period last year. Even so, Arena's PLM solutions still routinely require far fewer services than its legacy PLM competitors. Where Arena typically requires 25 cents of services for every dollar of new license subscription, most other PLM companies usually charge one to three dollars of services for every license dollar. Furthermore, Arena's services come with a fixed price for implementation, as opposed to the unpredictable and uncapped 'time and materials' model used by others in the industry.

Other achievements in Q2 2015 over Q2 2014 include:

- A 42 percent increase in the number of new customers;
- Subscription revenue for new customers up 54 percent;
- Customers expanding licenses or adding new products up 53 percent;
- Total subscription revenue up 27 percent.

New customers in Q2 2015 include:

- **Blackrock Microsystems:** Blackrock is a privately held company that provides enabling tools for the neuroscience, neural engineering and neuroprosthetics research and clinical community worldwide.
- **Phononic:** Phononic provides solid state semiconductor technology that can be applied to everything from refrigeration to fiber optics, removing the barriers of traditional approaches and ushering in a new era of cooling and heating.
- **Ideal Power:** Ideal Power has invented, patented and commercialized a revolutionary new technology that significantly improves the weight, size, cost, efficiency and reliability of electronic power converters - the conduits to modern energy.
- **Schneider Electric:** Schneider Electric enables people to experience and transform efficiency where they live and work; from home to enterprise, across the grid and the city.
- **Meta Co.:** Meta is revolutionizing the way people interact with technology and their environment by building some of the most advanced technology with its augmented reality platform that will allow people to collaborate with 3D holographic interfaces.
- **Vaddio:** Vaddio is the premier global manufacturer of PTZ (pan-tilt-zoom) cameras, professional AV solutions and a full suite of Unified Communication and Collaboration products for the audiovisual, videoconference and broadcast marketplaces.

"At Arena, everything that we do starts with the success of our customers in mind, and that is why we decided to offer our services as a fixed fee services, including our QuickStart implementation,"

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said Nathan Martin, VP of customer success at Arena. "Not only does this dramatically simplify things for our customers, but it also allows our customers to reliably budget for services costs compared to traditional 'time and materials deployments' that are common in the industry. This company-wide focus on our customers and their ongoing success is one of the many reasons that our customer retention rates have remained so high year after year."

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Dassault Systèmes Reports Strong Revenue and Earnings Growth and Upgrades 2015 Financial Objectives

23 July 2015

[Dassault Systèmes](#) today announced IFRS unaudited financial results for the second quarter and six months ended June 30, 2015. These results were reviewed by the Company's Board of Directors on July 22, 2015.

Summary Highlights

- Organic, constant currency new licenses revenue growth of 9% in Q2 and 11% in H1
- Good SIMULIA, DELMIA, EXALEAD and GEOVIA brands performance
- Q2 Asia non-IFRS revenue up 20% in constant currencies on strong demand across portfolio
- Strategic initiatives: Smart Cities, Additive Manufacturing, Multi-physics Simulation
- Upgrades 2015 Non-IFRS EPS Growth Objective: 18% (was 15-17% previously)

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EMC profit falls 17%, lowers outlook

23 July 2015

EMC Corp. said second-quarter profit fell 17% and the data-storage company further reduced its full-year outlook as spending slowed in the company's traditional storage business.

Shares in EMC, down about 16% this year, fell 3.7% in premarket trading.

The Hopkinton, Mass., company now expects to report \$1.87 in per-share profit this year, down from its last estimate of \$1.91 a share, on \$25.2 billion in sales, lower than its earlier estimate of \$25.7 billion. Analysts have been expecting \$1.90 a share on \$25.6 billion in revenue, according to FactSet.

Chief Executive Joe Tucci, whose employment contract expired earlier this year, said that "while pleased" with growth of newer products, "we also saw customers become more conservative around refreshing their traditional infrastructures as they plan their IT transformations." Mr. Tucci also noted ongoing geopolitical factors in China and Russia.

EMC is best known for large systems that use disk drives to store corporate data, but it has branched out

CIMdata PLM Industry Summary

into many other areas, largely through acquisitions.

The company benefited in the second quarter from growth at two software companies it controls--VMware Inc. and Pivotal Software Inc.--key components of what the company calls its federation strategy. At VMware, which reported second-quarter results Tuesday, profit grew 3% as sales rose 4% to \$1.6 billion. Pivotal's revenue, meanwhile, jumped 18% in its latest quarter.

EMC has faced pressure to change its structure from investors that include Elliott Management Corp. The activist investor purchased a large stake in EMC last year and has urged the company to spin off its roughly 80% stake in VMware to help boost EMC's share price. That pressure eased somewhat in January, after Elliott agreed to a standstill agreement until September.

Overall, EMC reported a profit of \$487 million, or 25 cents a share, down from \$589 million, or 28 cents a share, a year earlier. On an adjusted basis that excludes stock-based compensation and other items, EMC said it posted earnings of 43 cents a share, flat from a year earlier.

Revenue grew 2% to \$6 billion.

Analysts anticipated 41 cents in per-share profit on \$6.1 billion in revenue.

Sales in the company's information infrastructure business rose 1%, driven by strength in new products including a line called XtremIO that stores data on flash-memory chips rather than disk drives. Revenue for that segment more than tripled in the latest quarter.

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Infor Announces Strong Fiscal 2015 Results

23 July 2015

[Infor](#), the industry cloud company, today announced strong results for its fiscal 2015. Software license fees and subscriptions revenue increased 12 percent, with SaaS revenue up more than 60 percent in fiscal 2015, compared to the same period last year. SaaS bookings increased more than 300 percent as more than 45 million users now access Infor applications in the cloud in 96 different countries.

"The growth Infor is experiencing marks an inflection point for the company, where the heavy investments we've made in cloud software that meets unique industry needs with an elegant user experience are paying dividends," said Charles Phillips, CEO of Infor. "Infor is well-positioned to accelerate growth as more companies eschew the monolithic era of legacy software vendors in favor of flexible, secure cloud applications with the last-mile functionality they need without the costly customization they don't."

During fiscal 2015, Infor added approximately 2,900 new customers, including approximately 500 competitive wins against legacy vendors SAP and Oracle. New customers and go-lives in the year include [Wyndham Hotels](#), [Ferrari](#), [San Francisco Municipal Transport Agency](#), [Hershey Entertainment and Resorts](#), [Boskalis](#), [EBSCO](#), [Legacy Health](#), [Best Western International](#), [Kaman Industrial Technologies](#), and [Wagner equipment \(CAT\)](#).

Infor also focused on upgrading its large install base through an expanded ecosystem of system integrators, including new agreements with [HCL Technologies](#) and [Ciber](#); the company continued momentum with its UpgradeX program and successfully completed upgrades at customers including [San Antonio Water System](#), and [Kansas City Water Services](#). Infor added 97 new

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channel partners to the Infor Partner Network, and saw channel revenue increase 18 percent.

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Infosys Q1 net profit up 5%

21 July 2015

Infosys reported on Tuesday a 5% increase in quarterly net profit, bolstered by a surge in demand for IT outsourcing services from clients in the United States, its biggest market.

Infosys consolidated net profit to Rs 3,030 crore for the June quarter, up from Rs 2,886 crore a year ago. Consolidated revenue for the quarter was up 12.4% to Rs 14,354 crore, from Rs 12,770 crore in April-June, 2014.

The company has projected a positive outlook for the company in the financial year ending March 2016. It expects to rake in a revenues growth of 10%-12% in constant currency and 11.5%-13.5% in Indian rupee at a conversion rate of 1 US dollar valued at Rs 63.65 for the rest of financial year 2016.

"Our efforts in redesigning our clients' experience and our widespread adoption of innovation, both in grassroots and breakthroughs, are starting to bear fruit in large deal wins and in the growth of large clients," Sikka said.

In dollar terms, the company's consolidated net profit declined 1.3% to \$476 million in the first quarter of 2015-16, while revenue rose 5.7% to \$2.25 billion.

"We are operating within our stated margin band, balancing strategic investments and client focus with operational efficiencies," Infosys CFO Rajiv Bansal said.

Pricing environment is competitive, which Infosys is addressing through automation and improvement in productivity, he added.

The company added 79 clients in the said quarter, signed six large deals with a total contract value of \$688 million. Its volume growth stood at 5.4%.

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SAP Announces Second Quarter and First Half 2015 Results

22 July 2015

SAP SE today announced its financial results for the second quarter and first half ended June 30, 2015.

SAP again delivered exceptionally strong growth in the cloud. Second quarter non-IFRS cloud subscriptions and support revenue grew 129% year-over-year (92% at constant currencies) to €55 million. New cloud bookings, the key measure for SAP's sales success in the cloud, increased 162% in the second quarter to €203 million.

The Company had a very strong non-IFRS cloud and software revenue performance with 21% growth (9% at constant currencies) to €4.06 billion. Non-IFRS operating profit increased 13% (1% at constant currencies) to €1.39 billion.

"When I speak with CEOs, they are looking for a road map to digitize their business and to create new business models," said SAP CEO Bill McDermott. "Our business is thriving because we have the most complete vision for how to make this transition to digital business a simple one. I am confident that our strategy to deliver a platform, applications and business networks is exactly what customers need from

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SAP.”

“Our second quarter growth in new cloud bookings was significantly higher than in the first quarter. This momentum showed across our entire cloud and business network portfolio,” said SAP CFO Luka Mucic. “Our operating profit performance is beginning to reflect the business transformation we initiated to make SAP ready for the future. We are on track to achieve our full year business outlook.”

BUSINESS HIGHLIGHTS IN THE SECOND QUARTER 2015

Strong Momentum in Human Capital Management and Customer Engagement and Commerce Drives Cloud Applications Revenue

Customers increasingly turn to us to manage the total workforce, both permanent and flexible workers, globally. Our Human Capital Management offering, Success Factors Employee Central, is localized for 71 countries and the number of customers has increased to more than 730 from around 390 a year ago. This represents an 87% growth in customers in just 12 months. We also saw strong growth in Customer Engagement and Commerce where SAP is helping businesses track and engage customers in real-time across all channels and seamlessly execute and fulfill ecommerce in one end-to-end value chain. New cloud bookings for Customer Engagement and Commerce once again saw strong triple digit growth.

Surge in Number of SAP S/4HANA Customers

Customer adoption confirms that SAP HANA is key to running a data-driven business in the Digital Economy. This quarter, the number of HANA customers surpassed 7,200 compared with 3,600 a year ago. SAP S/4HANA’s robust early traction – more than 900 SAP S/4HANA customers by the end of the second quarter compared to over 370 at the end of the first quarter – is a major catalyst in SAP HANA’s broader market adoption across all industries and regions.

SAP Business Network Increases in Size, Revenue and Relevance

As the SAP Business Network grows, its value increases for all companies taking advantage of frictionless commerce in the digital economy. Total revenue in the SAP Business Network segment was €400 million (€333 million at constant currencies) in the second quarter, a year-over-year increase of 194% (145% at constant currencies). Approximately 1.9 million connected companies trade over \$800 billion of commerce on this network.

Regional Performance

Growth was solid in the EMEA region, with a 10% increase in non-IFRS cloud and software revenue. Non-IFRS cloud subscriptions and support revenue grew by 94% with triple-digit growth in new cloud bookings. Some highlights in the region include very strong growth across cloud and software in the Middle East and solid growth in Germany, France and the UK.

The Americas region saw strong double-digit growth, with non-IFRS cloud and software revenue growing 36%. Cloud subscriptions and support revenue in the region grew 141% with new cloud bookings nearly tripling, driven by a very strong performance in North America. The United States was a highlight with a strong performance across cloud and software. Regional macro-economic issues impacted results across Latin America.

In the APJ region, non-IFRS cloud subscriptions and support revenue grew by 138%, driving non-IFRS cloud and software revenue up 19%. New cloud bookings grew triple-digits. Japan continued its recovery with another strong quarter across cloud and software.

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SAP Q2 Net Drops, Sales Rise; Backs Full- Year View

21 July 2015

SAP AG Tuesday said its second-quarter profit declined from the prior year, while revenues climbed 20 percent with growth in Cloud and software as well as Software licenses and support revenues. The company backed its full-year outlook.

Profit after tax declined 16 percent to 469 million euros from 556 million euros reported last year. The results are on IFRS basis.

On non-IFRS basis, profit after tax grew 2 percent to 960 million euros.

Operating profit edged up 1 percent to 701 million euros. Non-IFRS operating profit jumped 13 percent to 1.394 billion euros.

Total revenues climbed 20 percent to 4.97 billion euros from 4.15 billion euros. Cloud and software revenues grew 21 percent to 4.06 billion euros with revenues from software licenses and support rising 13 percent to 3.51 billion euros.

Revenues from cloud subscriptions and support surged 129 percent to 552 million euros. New cloud bookings, the key measure for SAP's sales success in the cloud, increased 162 percent in the second quarter to 203 million euros.

Non-IFRS cloud and software revenue also improved 21 percent, with a 10 percent increase in EMEA and a 36 percent increase in the Americas.

HANA customers doubled from last year, surpassing 7,200 compared with 3,600 a year ago.

SAP CFO Luka Mucic said, "Our second quarter growth in new cloud bookings was significantly higher than in the first quarter. This momentum showed across our entire cloud and business network portfolio."

The company confirmed its outlook for full year 2015. The company expects full-year 2015 non-IFRS operating profit to be in a range of 5.6 billion - 5.9 billion euros at constant currencies, compared to 5.64 billion euros earned in 2014.

SAP expects full-year 2015 non-IFRS cloud subscriptions and support revenue to be in a range of 1.95 - 2.05 billion euros at constant currencies, compared to 1.10 billion euros generated last year.

Full year non-IFRS cloud and software revenue is still expected to increase 8 to 10 percent at constant currencies, from 14.33 billion euros reported last year.

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Wipro Q1 net slips 3.7%, sees Q2 \$ revenue at 1.82-1.85 bn

23 July 2015

Wipro 's first quarter consolidated profit declined 3.7 percent sequentially to Rs 2,187.7 crore on lower other income and higher finance cost. However, quarterly revenue met street expectations. Revenue from IT services grew by 3 percent quarter-on-quarter to Rs 11,577 crore and dollar revenue increased

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by 1.1 percent to USD 1.79 billion. According to analysts polled by CNBC-TV18, revenue was estimated at Rs 11,331 crore and dollar revenue at USD 1.78 billion for the quarter. Dollar revenue growth in constant currency was 0.2 percent, which was within the company's guidance (0.5 percent degrowth to 1 percent growth over March quarter). On year-on-year basis, the growth was 8.1 percent. Dollar revenue growth was lower than its peers TCS (3.5 percent) and Infosys (4.4 percent) for the quarter. Wipro expects its IT services dollar revenue to be in range of USD 1.82-1.85 billion in July-September quarter of FY16, a growth of 1.5-3.5 percent over June quarter, which was in line. TK Kurien, chief executive officer, Wipro said, "On the run side, deals are getting increasingly competitive and we are focussed on increasing the levels of automation." "On the change side, new stakeholders are influencing buying decisions in the digital space," he added. The company added 36 new customers in Q1 for IT services, taking the total to 1,071 customers. It has a headcount of 1,61,789 employees at the end of June 2015. Kurien expects growth momentum to continue in Q2, adding H2FY16 will be better than H1. He said growth in energy and healthcare businesses, which fell 1.1 percent and 3.2 percent Q-o-Q in Q1, should be returned in second quarter. According to him, energy business has bottomed out. He further said Europe business hit (down 1.9 percent) by energy specific accounts and structural slowness was seen in telecom equipment spend in Europe, adding manufacturing and hitech segment saw robust growth (2.6 percent) in Q1. Revenue from America increased by 2.8 percent and Asia Pacific up 1 percent. Global infrastructure services business grew by 1.6 percent while consulting business fell 4.5 percent. Kurien said parts of consulting business would be shut down which do not make strategic sense. Consolidated total income from operations during the quarter grew by 1.6 percent to Rs 12,370.3 crore in the quarter ended June compared to Rs 12,171.4 crore in March quarter. Earnings before interest and tax (EBIT) fell by 2 percent sequentially to Rs 2,428 crore and margin declined by 100 basis points to 21 percent during the quarter due to staff compensation. Analysts had estimated EBIT at Rs 2,417.5 crore and margin at 21.33 percent for the quarter. "We continued to drive productivity and improve operating levers even as we invested for growth in people, process and intellectual property (IP)," Jatin Dalal, CFO said. Wage hike will have 2-month long impact in Q2," he added. Other income declined 4.3 percent quarter-on-quarter to Rs 524.2 crore while finance cost rose by 41 percent to Rs 128.6 crore in the quarter gone by. Additionally, Wipro Digital, the digital business unit of Wipro, announced its intention to acquire Denmark-based Designit on July 9. The scrip of Wipro (which announced earnings after market hours) was quoting at Rs 585.35, up Rs 8.35, or 1.45 percent on the Bombay Stock Exchange

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Implementation Investments

Benetton Deploys Cad.Assyst

21 July 2015

[The Human Solutions Group](#)'s Italian subsidiary Sistemi Assyst, headquartered in Lainate near Milan, has gained [Benetton](#) as a new customer. The Italian fashion company will soon be working with Cad.Assyst and Automarker. Special additional functions have been individually programmed into Cad.Assyst and Automarker and precisely tailored to Benetton's requirements.

"We're delighted that Benetton has opted to use Cad.Assyst and Automarker," says Peter Stampfli, CEO of Sistemi Assyst. "We have consistently developed both of these solutions in recent years. For us, Cad.Assyst is not just a design tool, it also provides efficient data management, and it can even be used as a communication tool, or as a means of providing methods and expertise. And the depth of interaction

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between 2D and 3D is constantly increasing.

"Our Automarker solution offers fully automated piece placement with optimal utilization: On Automarker.com, you can calculate and manage as many markers as you wish at the same time and convert them into all established formats," Stampfli continues. "The quality produced always remains consistent."

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"Engineered to Fly" Industry Solution Experience on the Cloud Lets Suppliers Focus on Innovation, Not Overhead

23 July 2015

[Dassault Systèmes](#) today announced that [Elixir Aircraft](#), a French aviation startup, has chosen Dassault Systèmes' 3DEXPERIENCE platform to develop the industry's first aircraft designed using cloud-based applications.

Elixir Aircraft will rely on Dassault Systèmes' "Engineered to Fly" industry solution experience for the cloud-based design and engineering of its high-performing two-seater airplane, crafted to appeal to the passenger experience with a unique wing structure, comfort and gains in payload, safety and costs. The aircraft's first flight is expected to take place in mid-2016.

"Small companies face administrative and infrastructure challenges that require significant time and costs and can ultimately detract from achieving their primary business goal," said Arthur Leopold-Leger, CEO, Elixir Aircraft. "To create our first aircraft, we've chosen the Dassault Systèmes 'Engineered to Fly' cloud solution, not only because of the company's legacy in the industry, but because it allows young businesses like ours to benefit from immediate deployment, ease of use, data security and full technical support. As a result, we can dedicate our resources to design and engineering."

Based on Dassault Systèmes' 3DEXPERIENCE platform, "Engineered to Fly" is specifically tailored for small- and medium-sized aerospace and defense suppliers to enhance productivity. Elixir Aircraft has access to a flexible and complete cloud-based solution integrating the latest engineering technologies to manage the aircraft design and documentation process. Colleagues and suppliers can collaborate in a secure and social environment, helping to reduce cycle times and late changes in the engineering process. Since the platform's project structure is delivered "out of the box" with full IT support, Elixir Aircraft can accelerate its project completion with minimal IT investment.

"Elixir Aircraft is testimony to the potential of French tech startups embarking on programs that can invigorate the industry," said Michel Tellier, Vice President, Aerospace & Defense Industry, Dassault Systèmes. "By selecting the 3DEXPERIENCE platform for the first airplane to be fully designed on the cloud, Elixir Aircraft demonstrates the depth and breadth of the cloud as a serious engineering tool. Dassault Systèmes' cloud portfolio is the largest in the industry and offers unparalleled security, IP integrity and accessibility, robustness and scalability that can be leveraged by startups and small businesses to innovate cost-effectively."

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eSilicon Selects ProPlus Design Solutions' High-Performance Parallel SPICE Simulator and Variation Analysis Platform

22 July 2015

[ProPlus Design Solutions, Inc.](#) today announced that [eSilicon Corporation](#), a leading independent semiconductor design and manufacturing solutions provider, has selected its high-performance parallel SPICE simulator and its variation analysis platform for advanced intellectual property (IP) designs at 28-nanometer (nm), 16nm and beyond.

eSilicon selected ProPlus' NanoSpice for its high accuracy and superior performance, which are needed to tackle the increasing challenges of advanced designs, such as memory characterization, large block simulation and verification. eSilicon also adopted NanoYield for its highly accurate and high-performance high-sigma technologies to analyze the impact of process variations on analog and memory designs, in order to achieve optimum yield versus power, performance and area trade-offs.

Both tools have been validated by intensive evaluations for different types of designs and implemented into eSilicon's design flow to help eSilicon develop and deliver complex integrated circuits (ICs) and various memory and custom IP offerings. The tools' technological advantages, including NanoSpice's superior parallel performance with a pure SPICE engine, and NanoYield's industry-leading high-sigma technology on an integrated design for yield (DFY) platform, bring unique value to support eSilicon's world-class custom memory IP offerings.

"We develop custom IP on advanced process nodes, such as 16FF and 14LPP, which require characterization and verification tools with high accuracy, high capacity and high throughput," says Lisa Minwell, senior director, IP marketing at eSilicon. "ProPlus' NanoSpice and NanoYield are particularly valuable on these advanced nodes where the statistical variation is large."

"eSilicon is recognized as a successful and innovative company with exacting requirements to ensure it meets its customers' needs," notes Dr. Zhihong Liu, chairman and chief executive officer of ProPlus Design Solutions. "Our high-speed, high-capacity NanoSpice simulator and NanoYield high-sigma analysis tool bring unique accuracy, performance and economic value to companies doing leading-edge design. We welcome the opportunity to be part of eSilicon's success."

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Etisalat to Launch New Internet of Things Services Leveraging ThingWorx® IoT Development Platform

21 July 2015

ThingWorx, a PTC® business announced today that Etisalat, a leading Telecommunications provider operating in the Middle-East, Africa and Asia, has signed a Group Framework Agreement to deploy the Industry leading ThingWorx IoT Development Platform to enable new innovative IoT and M2M services throughout the regions that it serves.

Etisalat is one of the world's fastest-growing telecom groups, rapidly expanding across Asia and Africa. Its Middle East operations, strategically located at the crossroads of East and West, enables Etisalat to be the major hub in the Middle East for Internet, voice, broadcast, roaming and corporate data services. By partnering with ThingWorx, Etisalat will be able to offer its customers a large IoT application catalogue to cover a variety of market needs such as Smart City requirements.

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“After a thorough review of IoT platform options, we have selected the ThingWorx IoT Platform to drive our IoT strategy and the many innovative services that we are working to bring to market,” said Khalifa Al Shamsi, Chief Digital Services Officer, Etisalat Group. “We are looking forward to working with the PTC team and bringing value to our prospective M2M and IoT customers.”

ThingWorx offers an innovative platform for rapidly developing and deploying applications that realize the opportunity and value presented by the Internet of Things economy. ThingWorx’ simplified and unified approach to IoT applications enables companies to iteratively innovate business processes significantly faster than conventional methods and tools, thus accelerating time to value, reducing cost and risk, and transforming how products, people, and systems connect and interact.

“We are delighted that ThingWorx technology will be a core aspect of the Etisalat IoT Service,” said Russ Fadel, Founder and President at ThingWorx. “The opportunity to partner with the leading Telecom Provider in completely new markets for ThingWorx and PTC is exciting and we look forward to developing a long-term relationship with Etisalat and its group companies.”

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Gerber Technology to Provide Templating Solutions to GE Aviation for Airbus Project

22 July 2015

Gerber Technology, the world leader in integrated software and hardware solutions for the industrial market, has partnered with GE AVIATION (Suzhou) to provide a range of automated systems for composite aeronautic components to be used on the Airbus 350 XWB jet airliner. Key in this project is integration of the Virtek LaserEdge® three-dimensional laser templating system for ply layup.

Gerber offers a complete portfolio of automation solutions for the manufacture of composite parts to ensure accuracy, optimize productivity, maximize material utilization and minimize labor requirements. Gerber will provide a series of solutions to GE for the A350 XWB, including a single-layer automatic material supply system, single-layer automatic cutters for pre-impregnated composites, synchronous material receiving systems and operation platforms.

The A350 XWB is Airbus’ new family of wide body aircraft for medium- to long-haul airline operations, and features a 25 percent lower fuel consumption and composite materials accounting for 52 percent of its weight. In the global allocation of A350 XWB production, GE AVIATION will provide the fixed trailing edge (TESS) for the A350 wing. In addition, the Suzhou factory of GE also manufactures fairing and seal plates for the A320.

The Virtek LaserEdge laser templating system is effective in increasing productivity and ensuring accuracy because it eliminates the use of physical templates. These systems are also effective in controlling ply orientation and integrity.

GE has been doing business in China since 1906, and currently six GE business groups have Chinese operations, with a total investment of \$1.5 billion US and 12,000 employees. GE AVIATION (Suzhou), established in 2007, manufactures mechanical parts for aircraft and specialty automotive products.

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Lifestyle Company LF Corp Selects Dassault Systèmes’ “My Collection” Industry Solution Experience

23 July 2015

[Dassault Systèmes](#) today announced that [LF Corp](#), a leading fashion and lifestyle company in Asia, has selected the “[My Collection](#)” industry solution experience to streamline the planning, designing and sourcing of its collections. LF Corp is now supporting its international growth initiatives using powerful collaborative and analytical capabilities in a single digital environment.

LF Corp, formerly LG Fashion Corp., is a specialist in men’s and women’s fashion, sports and outdoor wear, and accessories for more than 40 years. Its 11 proprietary brands include Maestro, Hazzys, Lafuma, and Allegri, in addition to 18 licensed brands such as DAKS, Max Mara, Isabel Marant, Vanessa Bruno, Vince, and Joseph, and 1,500 multi-brand retail outlets in South Korea, China, Japan, Taiwan and Thailand. As part of its vision to become a global top-ten brand company by 2017, LF Corp sought a collaborative system that would boost its efforts to strengthen design, quality and sourcing, develop global high-end brands and enter new markets.

Based on the 3DEXPERIENCE platform, Dassault Systèmes’ “My Collection” industry solution experience provides LF Corp with unified development, sourcing and design capabilities, to simplify workflows and decision-making and minimize risks throughout its collections’ lifecycles. This digital environment connects internal and external stakeholders to facilitate real-time global collaboration, sourcing and workflow-based season planning. Improved end-to-end visibility will enable LF Corp to make more informed and efficient business decisions on collection definition and development that fulfill diverse customer requirements on an international level.

“We selected Dassault Systèmes’ ‘My Collection’ for its global collaboration capabilities and sourcing framework specialized for the fashion industry,” said Soon Young Cha, Chief Innovation Officer, LF Corp. “We have invested significantly in IT with the ambition to grow more competitive and join the ranks of global brand powerhouses. The 3DEXPERIENCE platform allows us to adapt to market changes and also can deliver additional capabilities over the long-term as our business needs to evolve.”

“The ‘My Collection’ industry solution experience offers international fashion and retail companies like LF Corp the agility and flexibility to manage product designs and variations in the context of quickly changing global fashion trends,” said Susan Olivier, Vice President, Consumer Goods and Retail Industry, Dassault Systèmes. “With a ‘single version of the truth’ from design to delivery, time spent developing and managing collections can be reduced by up to 75 percent. Companies can both shorten cycle-time and use that time to make better design and sourcing decisions—ensuring that collections are on track, on trend and meet financial targets.”

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Paul & Shark Selects Centric Software Product Lifecycle Management

21 July 2015

Paul & Shark, the luxury sportswear brand, has selected Centric Software to provide its [product lifecycle management \(PLM\) software](#).

The company, known for combining technical fabrics with elegant and stylish details, will use Centric 8 PLM to help manage growth and international expansion, according to Andrea Dini, owner and CEO of Paul & Shark.

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Centric 8 [PLM for retail, apparel, footwear, luxury and consumer goods](#) companies will replace a custom product data management (PDM) system at Paul & Shark. “The advantages of PLM, and specifically, Centric PLM, are significant when it comes to speed, efficiency and full visibility across all areas of product development,” says Dini. “For Paul & Shark, moving to Centric was a clear choice.”

Centric’s innovative PLM targets key areas for Paul & Shark, adds Dini. “The [Sample Review Mobile App](#), in particular, will help Paul & Shark maintain and enhance excellence in product quality and with the manufacture of materials.” The Centric 8 Sample Review Mobile App is an easy-to-use tool that allows users to quickly view and edit sample and style data on any iOS-enabled mobile device. The app results in better communication with suppliers, faster and more accurate sample development, and a more rapid product development schedule.

“Centric 8 PLM is ideal for Paul & Shark, an Italian brand that is synonymous with elegance and high-performance materials,” says Chris Groves, president and CEO of Centric. “Centric 8 will give Paul & Shark the ability to maintain laser focus on quality throughout the design and development process while expanding to meet increasing international opportunities.”

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Product News

Autodesk Within: Generative Design Optimized for 3D Printing

20 July 2015

Autodesk has launched Within, a new set of generative design software solutions to help engineers create and 3D print lightweight designs for automotive, aerospace, industrial equipment and medical implants.

Generative design is essentially concept sketching using algorithms, a process by which cloud computing power is used to generate design alternatives based on parameters (such as desired weight requirements, maximum stress, displacement) set by a designer. The resulting components are higher performing and can be considerably lighter weight than traditional designs. They are as stiff or as flexible as needed, and are refined to enable faultless additive manufacturing. [Autodesk Within Email](#) [Google+](#) [Twitter](#) [Facebook](#)

"In industries such as automotive and aerospace, it's critically important to continue innovating in how parts are designed and manufactured. Generative design, advances in material science, and new fabrication techniques are allowing engineers to deliver components that were never before possible," said Mark Davis, Autodesk's senior director of design research. "Autodesk Within enables designers to create high-performing parts while enforcing design rules and adhering to additive manufacturing constraints."

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Cadsoft Announces Envisioneer V11 is shipping

20 July 2015

Cadsoft Corporation, the leading developer of Building Information Modeling (BIM) software for the residential and light commercial construction industry, is proud to announce the release of Envisioneer version 11.

Envisioneer 11 enhances BIM functionality and delivers time saving tools that will have a big impact on customer productivity. Cadsoft is focused on delivering a true BIM package for the residential market and version 11 enhanced key areas of the software to make sharing and building an intelligent model easier.

Ray Groothuizen, Director of Development at Cadsoft, states: “Envisioneer 11 sets the gold standard for Building Information Modeling. We’ve added even more power to the industry leading design tools, we’ve developed multiple new integration tools, and we’ve enhanced the production drafting tools with a new suite of features. Couple this with the ability to seamlessly upgrade from the consumer level product to our top of the line Construction Suite and available subscription pricing, and Envisioneer truly is “BIM for Everyone”.

Key features include:

- Enhanced functionality to the Object Wizard that imports dwg,dxf,skp,3ds files and enables users to slice a 2D depiction of the block and orientate it.
- New automatic datum lines on elevations and sections with definable linetypes, text and a customizable datum block symbol.
- Cut/Copy/Paste functionality in the worksheet environment and to and from AutoCad™
- New integration features with REScheck, Sketchfab, BuilderTREND and UDA Construction Suite.
- Hands free automated licensing for seamless online authorization.
- Enhanced wood and steel framing capabilities including increased header positioning options and multiple sill plate insertions.

Envisioneer 11 is available immediately through the worldwide Cadsoft Business Partner Network. A complete list of new features can be found at <http://www.cadsoft.com/products/Env11.php>.

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BobCAD-CAM Announces CAD-CAM Custom Tool Capabilities for CNC Simulation With V28 Release

24 July 2015

BobCAD-CAM, Inc announces the all-new Version 28 software’s full compatibility with all custom & specialty milling and turning tool shapes for simulations.

Manufacturers in a wide variety of industries utilize custom tool shapes and specialized tooling in order to machine their jobs quicker and more accurately with fewer cuts. This is especially prevalent in many woodworking industries, metalworking shops, and mold manufacturing. Many manufacturers rely on

their custom and specialty tooling to operate at a profitable level.

The BobCAD-CAM Version 28 (V28) software gives users the ability to draw the half profile of their rotating milling tool and define multiple cutting surfaces on the tool, if applicable. Previous versions of BobCAD-CAM software allowed users to program with their custom or specialty tooling but now V28 offers users the ability to accurately simulate jobs using these types of tools. Users can visually inspect and confirm their CNC programming within the all-new simulation interface, which is also included as part of the new BobCAD-CAM V28 release.

The ability to use and simulate custom shaped and specialty milling tools adds to the software's existing capabilities that allow users to define and simulate custom shaped lathe tools and inserts. With this release, BobCAD-CAM software now fully supports the use of any custom and specialty shaped tools for CNC mill and lathe machine simulations. These capabilities are also supported on mill turn / multitasking CNC machine simulations as the company also launched a brand new Mill Turn CAD-CAM module alongside the release of the V28 software.

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DCS Announces the Release of 3DCS Version 7.3.2.0

23 July 2015

Dimensional Control Systems, Inc. (DCS) is releasing version 7.3.2.0 of 3DCS Variation Analyst with all new features. Available integrated in CATIA V5-6, as well as Multi-CAD for NX, Pro-E and SOLIDWORKS product, 3DCS Variation Analyst Version 7.3.2.0 delivers advanced simulation to DCS customers.

3DCS Variation Analyst is an advanced variation analysis software utilizing Monte Carlo simulation to create virtual prototypes of products. This gives manufacturers the ability to test their designs and manufacturing processes in a virtual environment in order to find build issues and non-conformance that may require rework, cause scrap and increase the overall production cost. This major update to the software includes a number of different features including Locator Sensitivity Analyzer and Alias Display and updates to the software's current functionality.

With the addition of Locator Sensitivity Analyzer, 3DCS Variation Analyst can be used to check the effect of different locators for a part. This helps determine optimal assembly conditions, and can be used to reduce variation caused by assembly processes at the plant.

Alias display gives the user of 3DCS the ability to instantly rename moves, measures and tolerances using variable naming conventions. This makes creating a standard naming convention easy for a program, which allows all designers and engineers to use the same process for naming their models. This can save a lot of time, as your team no longer has to name and rename these points along your model as your project progresses.

Color mapping has also been improved. Quickly see the distance from nominal, or determine trouble zones on parts or assemblies. The visual context in conjunction with Monte Carlo simulation can make it quick to zero in on key control characteristics and begin to analyze optimal tolerances and process configurations.

“At DCS, we constantly strive to improve our software and add features that customers need,” said 3DCS Product Manager Dave Johnson. “By listening to our customers and partners, we’ve improved the software to incorporate features and quality of life updates in order to meet the needs of marketplace.”

Download the latest version of 3DCS Variation Analyst at DCS FileShare, or learn more by visiting <http://blog.3dcs.com/3dcs-variation-analysis-new-version-7.3.2.0>

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Fisher Unitech Now Offering Makerbot 3D Printers

20 July 2015

Fisher Unitech, LLC, a leading reseller of 3D printing and engineering software and services, recently announced its expansion into the hobbyist 3D printing market with the addition of Makerbot to its product portfolio. Fisher Unitech has been one of the top Stratasys professional 3D printing resellers in the world for over 18 years, and the addition of Makerbot greatly expands the types of individuals they are able to assist.

“We are excited to start offering MakerBot printers,” said Nick Licari, 3D Printing Services Manager at Fisher Unitech. “The addition of the MakerBot line really completes the range of 3D printing products we can provide and opens up an avenue for us to help those looking to break into 3D printing without breaking the bank.”

MakerBot 3D printers are desktop accessible printers that utilize Fused Deposition Modeling (FDM) technology to extrude plastic that builds layers upon layers of material until a part is complete. The MakerBot printer line provides excellent portability and is easy to use. For those reasons, these printers have been widely adopted in smaller office settings, in the classroom, and in consumers’ homes. Fisher Unitech will be offering the MakerBot 3D printers themselves as well as the PLA filament that they utilize.

The Makerbots being offered can be found on Fisher Unitech’s website at <http://www.funitech.com/e-Store/MakerBot>.

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HOLZ-HER to unveil New Cad/Cam Software

20 July 2015

HOLZ-HER's new CAD/CAM software 3D-Master, can control CNC machining centers with 3 to 5 axes and was developed from scratch to meet the demands for machining wood and synthetic materials.

The CAD feature in the software provides all standard drafting functions, allowing simple creation of two-dimensional as well as three-dimensional objects. These work pieces can then be assigned to the required processing stages and tools in the CAM section. Then the cutting paths along the surface of the work piece are calculated automatically as rough-cutting and finish cutting cycles. This software is distinguished by the significant advantages of full integration of the post-processor into the HOLZ-HER CNC, as well as the transfer of all tool parameters from the CAMPUS/NCHops software tool database. This means it is only necessary to create and update one database, preventing errors and mix-ups. In addition to managing 5-axis simultaneous cutting with milling tools, the software can also control saw blades in 5-axis operation.

An important feature of the 3D-MASTER software is the integrated import filter for all common CAD drawing formats on the market. This allows 3D drawings from other software sources to be opened easily and provided with the processing parameters. The software also includes an "ART" module for

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designing such items as company nameplates as well as a tool for vectorizing graphics and for popular structure milling. The 3D MASTER also supports laser scans of work pieces, humans, etc.

A practical upgrade feature, particularly for 5-axis operation, is the 3D simulation and collision control. With this option customers obtain perfect 3D simulation of their HOLZ-HER machine, allowing them to simulate production of the work piece even before starting production, thus preventing any possible collisions between router spindle, tool, machine table and suction cups.

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Mentor Graphics Announces Flowmaster with Enhanced Multi-Arm Tank Component and 1D Pipe Stress Links

23 July 2015

[Mentor Graphics Corporation](#) today announced the newest version of the Flowmaster® 1D computational fluid dynamics (CFD) software product for fast and accurate thermo-fluid systems design. The new Flowmaster solution features several key new and enhanced functionalities including an improved multi-arm tank component, and integration with complementary 1D pipe stress products such as CAESAR II and CAEPIPE for pipe fluid-force predictions. Overall product enhancements to usability and increases in physical modeling capabilities provide unparalleled accuracy and ease-of-use to the automotive, aerospace, power generation and gas turbine markets.

The enhanced usability and physical modeling capabilities in version 7.9.4 of the Flowmaster product include:

- **Multi-Arm Tank Component:** This capability enables the user to choose between two distinct heat transfer models: poly-tropic and full heat transfer. This is a feature of particular applicability to the aerospace market.
- **Enhanced "Experiments":** Users can easily modify key system parameters and observe the impact immediately and from one place in the software. A persistent "run" dialog provides users direct access to start simulations.
- **Bookmarks:** This feature allows charts to be updated automatically upon completion of a design iteration allowing users to compare the effects of a given modification. Multiple bookmark plots can be used concurrently to create a detailed understanding of the system across multiple iterations.

In addition, the Flowmaster product, now for the first time, offers integration with leading pipe stress computer-aided engineering (CAE) tools. The hydro-dynamic force generated by a fluid transient event can be calculated in the Flowmaster product and the resulting force-history can be exported to both SST CAEPIPE and Intergraph CAESAR II for pipe stress analysis, which is ideal for process, utility and energy markets. These seamless interfaces in the Flowmaster product facilitate geometry and data transfer between these two leading CAE tools. Users will attain complete system performance results under transient conditions early in the design process by using this feature.

SST Systems, Inc., a Silicon Valley-based company offering plant design and engineering software and services for over 30 years, finds this feature to be of particular value to stress engineers and fluid analysts since geometry and force time history data can be easily exchanged. "Using Flowmaster, both disciplines benefit from maintaining integrity during data exchange and become incredibly productive

because the job gets done so much faster as models are created only once," stated Mr. D. Vijay, product manager at SST Systems, Inc. "Pressure drop calculations, transient fluid flow, piping and structural analyses data can now flow from 3D CAD to CAEPIPE to Flowmaster, and then back to CAEPIPE with ease and accuracy."

"These new capabilities demonstrate why Flowmaster is the world's leading general purpose 1D CFD simulation software product, delivering unparalleled accuracy and productivity for today's pipe network systems designer," stated Roland Feldhinkel, general manager of Mentor Graphics Mechanical Analysis Division. "Our latest Flowmaster solution delivers a rich user interface with many automated features, plus now seamless integration across 1D CAE design tools, and robust modeling capabilities to help our customers get to market faster than ever with greater confidence."

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OPENMill Introduced By OSAI – New CNC Hardware And Software Solution For Machining Centers

21 July 2015

OPENMill™ is the latest CNC modular control system for control of machining centers from OSAI USA. Designed for highest productivity, finishing quality and ease of use, these new OSAI hardware and software modules provide optimized management of simple 3 axis milling machines to the most complex 5 axis machining centers.

"The new OSAI hardware and Software modules allow the optimized management of machining centers, in terms of costs and performance from simple 3 axis milling machines up to more complex 5 axis machining centers." reports Ivica Simunic, national sales manager for OSAI USA. "The OPENMill system is designed to simplify the installation and commissioning, for a faster time-to-market, as a result of its advanced Software modules and Hardware components".

The OPENMill software programs and controls the machining center managing the execution of programs from either an external CAD-CAM or locally using graphic and parametric programming of cycles and profiles. The programmer does not require any knowledge of ISO language used by the CNC as a result of the simple to use integrated conversational editor.

The OPENMill software matches the OPENcontrol Software configured as OPEN-20 and includes all the functions required to control machines with up to 4 interpolated axes. The OPENcontrol software configured as OPEN-30, has been specifically designed for complex machines with 5 or more interpolated axes per process, up to 24 processes and up to 64 controlled axes.

The real-time SoftPLC, integrated in the CNC, is extremely versatile allowing interface of the control with most machine systems, from simple 3-axes milling machines to multi-axes and multi-spindle machining centers. The system's 250 multi-task capability at 10 priority levels and with 450 available functions is further assurance of the OPENMill's capabilities and versatility.

The OPENcontrol family of CNC's are scalable and with a computing power easily adaptable to any customized requirement with no modifications to the software or the application and with block processing speeds of up to 7,000 blocks per second. The OPENcontrol can also use compact or modular drives, servo motors, and spindle motors to meet any application needs.

OPENMill follows the successful launch of OSAI OPENCut hardware/software solution for plasma and oxy-fuel cutting. Both systems are backed by OSAI USA's more than 50 years' experience providing leading original equipment manufacturers and machine builders with state-of-the-art CNC control solutions.

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Proto Labs brings seamless quoting to Autodesk Fusion 360

20 July 2015

[Proto Labs](#) Inc has teamed up with Autodesk to provide easy access to Proto Labs' online quoting system directly within Autodesk's Fusion 360. This software integration will go live with a late-July release of the Fusion 360 application update.

“This is the first step in what we expect to be a successful combination of our tech-driven manufacturing services and Autodesk's advanced Fusion 360 CAD software,” says [Proto Labs](#)' VP and GM of the Americas, Rob Bodor. “We want to give product designers and engineers increasingly easy access to pricing and part analysis so they can quickly manufacture parts to test and iterate design during product development.”

By clicking the Proto Labs logo within Fusion 360, users will be able to get an interactive quote with manufacturability analysis, for injection molding or CNC machining, within a few hours. The analysis highlights potential manufacturability issues allowing design modifications to be made early before any actual production begins.

In addition to molding and machining, plans are underway to implement similar quoting functionality for pricing on Proto Labs' third flagship service: additive manufacturing (3D printing). “We will continue to enhance our in-program quoting in Fusion 360 over the next year to bring even more capabilities to users,” Bodor says.

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RS Components Delivers New Easy Access to Wide Range of Electronic CAD Models

24 July 2015

[RS Components](#), the trading brand of [Electrocomponents plc](#), the global distributor for engineers, today announced it has exclusive distributor access to the [SamacSys ECAD Part Wizard](#) (EPW) and a wide range of high-quality ready-to-use electronic component ECAD models. The models support all popular ECAD tool formats, including the RS DesignSpark PCB software, and are available for download along with the EPW application completely free of charge via the [DesignSpark website](#).

In conjunction with SamacSys, RS is working closely with leading component manufacturers to provide accurate and high-quality ECAD models that offer schematic symbol and PCB footprint information for electronic parts. This delivers significant advantages for electronic design engineers including rapid design-in, fewer PCB errors and significant time savings, resulting in improved user experience and a shorter time-to-market.

Importantly, the ECAD Part Wizard provides design engineers with full control of the schematic symbol fracturing process. This includes the number of fractures to be created, the placement of pins around the sides of each fracture (left, right, top and bottom), and the order in which each pin is displayed. In addition, EPW provides PCB-layout component footprints, all of which are IPC compliant with user-selectable least, nominal and maximum footprint options.

These new ECAD models are available to download via the RS website, directly from within the EPW tool or from the RS Product Data Library (PDL) and have been created to help engineers with their rapid prototyping design process. Currently the PDL holds more than two million part numbers from more

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than 500 manufacturers with five million individual pieces of technical documentation and computer aided engineering files to support engineers in the design process. In addition, DesignSpark users can request the prompt creation of a specific component model if it is not already available in the library.

"DesignSpark is an online community from RS which offers valuable information and resources including major free-to-download tools such as [DesignSpark PCB](#)," said Alex MacDougall, Managing Director at SamacSys. "The addition of the SamacSys ECAD Part Wizard and ECAD models into the RS Product Data Library recognises that these tools can deliver major productivity gains to design engineers and help speed up the design and prototyping process."

"The completely free availability of the SamacSys EPW and this wide range of ECAD models can be a significant aid to engineers," said Glenn Jarrett, Global Head of Product Marketing at RS Components. "It enables designers to spend more time on innovation in their projects rather than wasting valuable resources by having to enter component data to build up ECAD tool libraries. In addition, they are assured that data errors are not introduced into the process."

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Share3D upgrades empower 3D Web Publishing and Online Part Catalogs

22 July 2015

QuadriSpace™ announced major upgrades to Share3D, the cloud-based technical publishing solution used by manufacturing companies. As an important part of the QuadriSpace whole product solution, Share3D (<https://www.share3d.com>), provides seamless online delivery of technical materials created with Publisher3D and Pages3D.

The latest upgrades to Share3D offer a complete, cloud-based solution for technical publications, including:

- Team collaboration for private manufacturing instructions delivery and field service portals
- Web publishing for delivering public web pages and embedding 3D in corporate web sites
- Online catalogs for delivering interactive 3D catalogs with shopping cart capabilities

Share3D is based on standard web technologies such as WebGL and does not require plugins. This makes it a powerful solution for ubiquitous viewing of 3D within all leading browsers and across PCs, Macs and most mobile devices. The current release adds browser-based touch support for interacting with 3D on iOS and Android mobile devices.

New public sharing features empower manufacturing companies to create and publish web pages based on existing 3D data. Public web pages can be protected with simple passwords, as appropriate. For companies seeking to maintain branding, public web pages can present company information or 3D content hosted on Share3D can be embedded in existing corporate sites.

Online catalogs are another capability of this release. New shopping cart features enable Share3D users to quickly create parts catalogs from 3D CAD files. Individual line items can be selected in 3D or from a parts list and added to the shopping cart. A checkout process enables viewers to submit the shopping cart to the publisher for initiating quote requests and purchase orders.

The new Data Connection feature also supports online catalogs by allowing Share3D to access external pricing, inventory and other on-demand part information from ERP, PLM or other systems. Shopping Cart and Data Connection features are currently in beta.

Finally, Share3D has been upgraded with new file management features allowing users to sort and filter their uploaded 3D files and add them to a favorites list for easily accessing files.

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About QuadriSpace Corporation

QuadriSpace Corporation (<http://www.quadrispace.com>) provides leading software, cloud services and apps that enable easy reuse of 3D models and metadata for documentation and collaborative communication. Our software enables the easy creation of content that can be distributed to others directly through print, by 3D PDF or online using our Share3D service for cloud-based delivery and collaboration. Founded in 2001 to help companies reuse informative 3D models, QuadriSpace solutions have a tremendous impact on productivity, time-to-market and communication effectiveness worldwide.

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