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Company News

ANSYS and EURORACTICE Provide Engineering Simulation Solutions to Thousands of University Students

24 March 2015

Thousands of university students throughout Europe, the Middle East and Africa will now have access to the suite of leading electronics simulation solutions used by professionals, thanks to a new agreement between [ANSYS](#) and [EURORACTICE](#).

Under the agreement, such electronics solutions as ANSYS® HFSS™ and ANSYS RedHawk™ will be available to EURORACTICE members, representing more than 500 universities in 42 countries. EURORACTICE is a European Community initiative to stimulate the wider application of state-of-the-art microelectronics simulation technologies by European industries.

"EURORACTICE's goal is to enhance European industrial competitiveness in the global marketplace," said Dr. John McLean, division head of the Science and Technology Facilities Council's Microelectronics Support Centre. "By partnering with ANSYS, we'll be able to get more cutting-edge tools into our members' hands."

The EURORACTICE Design Tool Service provides easy access to a range of design tools for non-commercial teaching and research. As part of the agreement, member universities can quickly download ANSYS solutions at a discounted price. For example, the [University of Oxford](#) will use ANSYS solutions to support research in superconducting microwave devices, astronomical receiver devices and trapped ion quantum computing.

"We're excited that ANSYS simulation products have been added to the tools available through EURORACTICE," said Dr. Peter Leek, of the University of Oxford. "Leading companies around the world use ANSYS solutions to take their products from concept through to production. Giving our students access to ANSYS' products earlier in their careers will make them even more sought after by companies worldwide. The speed, reliability and accuracy of ANSYS is very useful for our research. The accessibility to new users is also a real benefit in our research environment, in which we have a quick turnover of new students and researchers always needing to carry out different simulation tasks."

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"Part of ANSYS' core mission is to educate the marketplace about the importance of simulation in the product development process," said Paul Lethbridge, academic product manager with ANSYS. "This agreement will help to bring that message to the next generation of engineers."

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ENGworks BIM Services Division Continues its Expansion in the US

26 March 2015

Continuing the trend that has developed over the last few years, BIM requirements have been rapidly growing on all project sizes and types. With Public Sector Construction increasing over 5% compared with last year and Private Sector Construction recovering strongly, needs for BIM services continues to surge.

With offices in Southern California, Chicago and soon New York, ENGworks is continuously hiring BIM Experts to fulfill Architects, Engineers, Contractors, Subcontractors and Owners' BIM needs. In the last 12 months alone ENG grew by 30% and now has over 100 people to serve the US Market. Moreover, with a solid pipeline of awarded projects we expect to grow at least by another 30% to 40% in 2015.

100 people may not sound like a big number for other service industries, but for a US BIM Services Company it is a lot! 100 people places ENG among the main players and largest in the BIM Services field.

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EOS names Glynn Fletcher President of EOS of North America, Inc.

23 March 2015

EOS announced that Glynn Fletcher has been named president of EOS of North America, Inc. The appointment reinforces the company's already strong position in the growing market for AM technology.

"Throughout his career Glynn Fletcher's deep understanding of innovative production processes has proved invaluable to the manufacturers of high value parts," says Dr. Hans Langer, founder and CEO of EOS. "Our customers will benefit from not only his long manufacturing experience but also his international perspective formed in Europe and the Americas. This will strengthen our ability to help our customers find new ways to exploit the potential of our technology.

"Fletcher was previously the president of GF Machining Solutions (GFMS) Americas LLC, Lincolnshire, Ill. (formerly known as GF AgieCharmilles). Jointly, GFMS and EOS have previously showcased the power of Additive and Subtractive Manufacturing, for example, demonstrating a nearly automatic process chain for creating injection and blow-mold tooling at the International Manufacturing Technology Show (IMTS), America's largest event of its kind. This process chain example reinforces the concept that Additive and Subtractive Manufacturing are complementary.

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“In North America as elsewhere, customers want to apply our technologies not only to lead in innovation but to more fully integrate with traditional manufacturing processes,” Dr. Hans Langer adds. “Meeting this objective has been a long-term strategy of ours. The appointment of Glynn Fletcher underscores our commitment to the success of our customers and to EOS’ ongoing growth in this region.”

“As someone who has been around machining systems for many years, I recognize the tremendous potential of Additive Manufacturing as an industrial 3D-printing process,” Fletcher says. “Manufacturers throughout North America can use EOS systems to expand markets, shorten lead times, and optimize their supply chains. Most important, the technology not only helps them make existing products in a new, efficient process, it allows them to completely re-imagine designs in ways that weren’t possible before.” Fletcher will also be managing two companies within the EOS family: Advanced Laser Materials (ALM), the leading provider of high performance polymers, including customized blends, for the AM industry, and Integra Services, which offers high-quality service and support for rapid prototyping and AM technology.

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lectra.com: New Site, New Positioning

24 March 2015

Lectra is pleased to announce the complete redesign of its web site, lectra.com. The company clearly defines its new brand image through the pages and reaffirms its ability to support customer change.

Aimed mainly at businesses active in Lectra's major world markets, the website draws visitors into an exploration of the company's expertise and experience in fashion and apparel, automotive and furniture. The customer is taken on a journey into an exclusive universe where Lectra's value proposition is presented across all its different sectors.

A new media center includes all of Lectra's different publications. More than 130 videos, dozens of customer testimonials and a range of white papers demonstrate how Lectra's experts can help transform business processes to best address industry challenges. There is also more detailed information about Lectra's highly-innovative solutions on its five micro-sites-[Lectra Fashion PLM](#), [Make it with Lectra](#), [A Model for Change](#), [Vector](#) and [Versalis](#).

In line with Lectra's high-end positioning, the site draws inspiration from the esthetic design codes of the luxury sector. Published in several languages, it reflects the company's international identity and strong ability to attract talent in order to offer the most suitable approach and the most sustainable solution to each of its customers.

"The new lectra.com is a radical overhaul of our previous site. The originality and quality of its content make it stand out. It demonstrates the unique character of the company, the only one in its market to offer a combination of expertise, technology and consulting. This is a strength which gives us direction and inspiration for all our communication tools," said Myriam Akoun-Brunet, Communications Director, Lectra.

lectra.com was designed in collaboration with Paris-based digital agency, Insign.

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Materialise Announces Partnership with Kapstone Medical

26 March 2015

Materialise announced a strategic partnership with [Kapstone Medical](#), a product development and intellectual property service provider for medical device innovators. The new partnership will provide medical device companies and surgeon inventors a complete solution for bringing ideas to market from initial idea to product launch.

For over 25 years, Materialise has been on the leading edge of 3D printing and image-based software solutions with its [Mimics Innovation Suite](#). In addition, its [Anatomical Data Mining \(ADaM\) solution](#) has been able to help orthopedic device manufacturers bring anatomical evidence into product development with validated, population-based average models derived from databases of imaging data.

Kapstone Medical is an end-to-end customized solutions provider dedicated to helping medical device innovators develop and safeguard their ideas. The company integrates a suite of disciplines to give physician inventors, entrepreneurs, and manufacturers of all sizes the opportunity to efficiently develop new ideas, on time and on budget.

“We are excited to join Kapstone Medical in a partnership that will help companies and inventors create a better and healthier world,” said Bryan Crutchfield, Managing Director of Materialise USA.

In the past year, Materialise and Kapstone have partnered to support Shoulder Options, Inc. in the concept design for a novel reconstructive device. By combining Materialise’s population analysis service and Kapstone’s broad expertise in product development and commercialization, the two companies were able to assist Shoulder Options in successfully designing a next generation, anatomical implant system.

For John Kapitan, Kapstone Founder and President, “in layering the Materialise suite of products with Kapstone’s knowledge and skillset, the partnership will help innovators swiftly and efficiently take their technologies from conceptualization to market.”

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ModuleWorks Receives National Award “Best IT employers 2015”

17 March 2015

Once again, ModuleWorks has been confirmed as one of the best places to work! In the 2015 nationwide survey of IT employers across all of Germany, ModuleWorks is recognized as one of the 50 best employers in the IT industry for the 2nd year in a row.

ModuleWorks is a leading developer of CAM (Computer Aided Manufacturing) plug-in software components with headquarters in Aachen, Germany and three international subsidiaries. It licenses its components to other CAD/CAM software companies and academic institutions around the globe. These software components can be viewed as the building blocks that underpin many of the most popular CAD/CAM software products around the world.

The 3rd annual survey to find “Best IT Employers” for 2015 was organized by Great Places To Work® in co-operation with their media partner, Computerwoche. Great Place to Work is a global research,

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consulting and training organization that helps businesses develop great workplaces. Their research and Best Companies recognition programs take place in 45 countries on six continents and represent over 10 million employees' voices, forming the largest and most respected employee survey worldwide.

Around 200 companies from the IT sector in 5 different company size-related sectors participated in this benchmark study to measure quality and attractiveness of the prevailing work culture by the Great Place to Work institute.

The independent survey involved anonymous employee evaluation by ModuleWorks employees taking in major topics such as trust, identification, team spirit, career development, salary, promotion of health and work-life-balance. In addition, the quality of human resources work and management work was also evaluated.

The award reflects extraordinary performance in the fields of trusted work relationships and the creation of attractive work conditions for employees. On 16th March there was a ceremony at CeBIT trade show Hannover where the best employers were honored.

“Our participation in the Great Place to Work benchmark study and the associated competition is important for ModuleWorks because it has provided an independent view of our company and work culture” comments Jens Beissel, Marketing & HR Manager at ModuleWorks. He also says “We are very pleased to be recognized for a 2nd successive year by our employees and the experts at Great Place to Work and we are delighted that we continue to carry the label “Great Place to Work”.”

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PTC Appoints Robert Schechter as New Board Chair

26 March 2015

[PTC](#) today announced that Robert Schechter has assumed the role of chairman of the company's Board of Directors. Schechter, a PTC director since 2009, is former CEO of NMS Communications Corporation, a provider of hardware and software solutions for the communications industry. He has considerable experience in the technology industry, currently serving on the boards of Tremor Video Inc. and EXA Corporation and previously serving on the boards of Unica Corporation and Soapstone Networks. Schechter succeeds Donald Grierson, who will continue to serve on PTC's board.

“Bob brings a valuable combination of business strategy, technology and financial acumen to PTC's board,” said Jim Heppelmann, PTC's president and CEO. “We look forward to benefiting from Bob's tremendous board experience and business insight as we focus on profitable growth and delivering shareholder value.”

Prior to NMS Communications, Schechter held positions of chief financial officer and senior vice president at Lotus Development Corporation and was responsible for all sales, marketing, customer service and product development activities outside of North America, as well as Lotus global consulting services. Both Lotus and NMS represented innovative paradigm shifts in Internet collaboration and wireless connectivity. Schechter's experiences at those companies uniquely positions him to lead PTC's board of directors as PTC pursues its own disruptive innovation in the Internet of Things. Previously, Schechter was a Partner at Coopers & Lybrand LLP and served as Chairman of the North East Region High Tech Practice.

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“Having contributed to PTC’s strategic direction over the past six years as a board member, I couldn’t be more enthusiastic about the opportunity to help PTC seize the opportunities that lie ahead,” said Schechter. “PTC has tapped into a massive wave of technology innovation, particularly in the area of the Internet of Things, and has made moves to place itself in a leadership position. The company is now appropriately focusing on how to capitalize on this opportunity to drive a new era of growth.”

Schechter assumes the board chair from Donald Grierson, a long-time director who served as Independent Lead Director from 2010 to 2012, and became board chair in 2012. Mr. Grierson will continue to serve as a director of the board and as Chairman of PTC’s Compensation Committee.

“During Don’s chairmanship, PTC moved boldly into new markets, helping differentiate the company and positioning us for growth, while at the same time increasing operating margins and driving shareholder value. We are grateful for Don’s leadership over the past several years, and we look forward to his continued contribution to the company’s success,” concluded Heppelmann.

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Siemens Expands UI LABS Partnership with CityWorks

24 March 2015

Today Siemens announced it is expanding its partnership with Chicago’s UI LABS with the formation of CityWorks, a consortium that will develop and test urban infrastructure solutions to help transform cities across the globe. In collaboration with the city of Chicago, local academic institutions, and civic partners, CityWorks will address infrastructure challenges in four key areas: energy management, physical infrastructure, water and sanitation systems, and transportation and logistics systems.

With more than 3,000 employees in the Chicago-area, Siemens will join other CityWorks partners including Accenture, ComEd, and Microsoft, to develop a strategic investment plan and projects for the coming year. CityWorks will curate six to eight demonstration projects in 2015, with the first few slated to be announced in the coming months.

“Siemens is a global leader in sustainable urban infrastructure, ranging from energy-efficient buildings and smart transportation systems to reliable and efficient power grids and water systems,” said Dave Hopping, President and CEO of Siemens’ North American-based Building Technologies Division. “We’re excited to collaborate with UI LABS on CityWorks. This project embodies the key focus of our company around digitalization, automation and electrification for our cities and will help ensure that our cities remain at the forefront of technology and innovation.”

In February 2014, Siemens became a founding partner and the sole Tier I supplier of Product Lifecycle Management (PLM) software to UI LABS’ Digital Manufacturing and Design Innovation Institute (DMDII). DMDII is the nation’s flagship research institute for digital manufacturing and design innovation and the recipient of a \$70 million Department of Defense cooperative agreement leveraged by commitments of \$250 million from industry, academia, government and community partners.

“Infrastructure forms the backbone of our cities, our economy and our society,” said UI LABS Executive Director Caralynn Nowinski. “The challenges involved are so big that solutions require the combined efforts of the best and brightest at multiple organizations, which is why we’re so excited to have Siemens as a founding partner to lead CityWorks.”

Through public-private partnerships like this, Siemens is committed to finding solutions for the growing

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set of challenges facing cities and urban areas. Through intelligent infrastructure such as building automation and smart grid technology, traffic control and management systems, and information systems, Siemens products and solutions help cities transform to meet the needs of today's citizens. Siemens has partnered with cities across the globe to implement intelligent solutions like its rail electrification system that helps tens of thousands of New Yorkers daily on the [MTA's Canarsie subway line](#) move faster and more safely, the world's first [driverless train in Paris](#) and a [smart city platform in Vienna](#).

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William Fricks Assumes Helm of Barry-Wehmiller International

26 March 2015

Bob Chapman, Chairman and CEO of Barry-Wehmiller, is pleased to announce the appointment of William Fricks to Managing Partner of Barry-Wehmiller International (B-WI), its global consulting division that provides engineering and information technology solutions to mid-market manufacturing companies.

Fricks has more than thirty years of experience selling, designing and delivering manufacturing automation and business management solutions. After joining Barry-Wehmiller's Design Group in 2003, Fricks distinguished himself with his strong technical aptitude and exceptional organizational, project management and client development skills and was promoted to Design Group Partner in 2012.

"William has demonstrated outstanding leadership and business development skills which will serve Barry-Wehmiller International well as they enter a new chapter in the company's history," Chapman said. "His experience will help to strengthen B-WI's capabilities and services and ensure they deliver forward thinking industry solutions while keeping Barry-Wehmiller's people-centric values in focus."

In his new role, Fricks will report to Carol O'Neill, VP of Strategy, Technology and Key Initiatives and will be responsible for all aspects of the business, including global practice direction, business development, client relationship management, financial management, project management and organizational development. "I am thrilled that BW-I will have an opportunity to benefit from William's exceptional track record of developing meaningful customer relationships by building the team and practices needed to deliver solutions that consistently meet or exceed customer expectations," O'Neill said.

"I am honored to lead this tremendous group of professionals who are clearly dedicated to providing the highest standard of business and manufacturing solutions with unparalleled client support," remarked Fricks. "The opportunities that lie ahead are very exciting."

Fricks has a bachelor's degree in chemical engineering from the Georgia Institute of Technology. He plans to remain in the Atlanta area. He replaces Vasant Bennett, former Managing Partner, who left to pursue other interests.

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Zuken Expands E3.Series Reseller Network in North America with CAM Logic

27 March 2015

Zuken announces the expansion of its [E3.series](#) reseller network in North America with the addition of [CAM Logic](#). CAM Logic is a leading provider of PLM Solutions and 3D Engineering software and services.

E3.series is a complete solution for the design of wiring, control systems, hydraulics and pneumatics and is fully integrated with the industry's major MCAD solutions.

“Adding E3.series to our portfolio means we can now offer our customers a smooth integration between our MCAD solutions and Zuken’s electrical and fluid design tools, and we can support customers who use advanced electrical design systems. Combining these solutions will make it much easier for mechanical and electrical engineers to work together and build higher quality products faster.” - Jim Carlisle, Owner and President, CAM Logic

John Molloy, Director of E3.series Americas Channel Sales at Zuken, said, “Improving ECAD/MCAD integration is a major factor for companies looking to maintain their competitive edge. Achieving better communication between the disciplines through integrated tools means earlier and more accurate exchange of design data,” he explains. “This reduces design iterations, improves quality and drives down product development cost and time-to-market. Leveraging this, CAM Logic has already closed their first significant order.”

CAM Logic is one of a handful of North American companies offering full lifecycle design, analysis and manufacturing products and services, including 3D printing, rapid prototyping and 3D scanning for inspection and reverse engineering. The company is based in Oxford, Michigan and covers Michigan, Ohio, Indiana, Illinois and Pennsylvania.

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Events News

Automotive, Aerospace and Defense Take Center Stage at the 2015 Americas Altair Technology Conference

26 March 2015

The application of simulation-driven design and optimization to vehicles on land, under the seas, in the air and orbiting the earth will provide the major focal point for keynote speakers at the [2015 Americas Altair Technology Conference](#) (ATC) in Dearborn, Mich., May 5-7. The conference is the premier annual gathering of engineering professionals and thought leaders in the areas of product design, advanced manufacturing, applied physics, and high-performance computing.

Hundreds of researchers and engineers from across North America, as well as presenters and attendees from Mexico and Brazil, will participate in three days of [presentations and workshops](#) at the Ford Motor Company Conference and Event Center. On Tuesday, May 5, attendees will have the opportunity to participate in a full day of workshops on such topics as powertrain, lightweight design, vehicle dynamics, automotive safety, additive manufacturing, multiphysics, noise/vibration/harshness (NVH), system-level design and simulation of electromagnetic systems. Highlights of the conference on May 6 and 7 will include keynote presentations from two automotive industry and public sector leaders:

- Mike Whitens, Director, Vehicle and Enterprise Science, Research, Ford Motor Company

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- Kevin Kerrigan, Senior Vice President, Automotive Office, Michigan Economic Development Corporation

Their insights will be amplified by featured speakers from the aerospace and defense industries:

- Franck Mouriaux, General Manager, Structures, RUAG Space
- Ken Dudley, Senior Researcher, NASA Langley Research Center
- Stewart (Denny) Moore, Principal Engineer, Applied Mechanics, General Dynamics/Electric Boat

In addition, Altair Chairman and CEO James R. Scapa will provide an overview of Altair's plans and innovations for continuing to advance the use of simulation in the design of products, packaging, and systems in virtually every sector of global business.

"The ATC is where the next generation of innovation begins for transportation, aerospace, home appliances, electronics, architecture, scientific research, consumer goods and scores of other products and processes that can benefit from simulation-driven design, optimization and data analytics," Scapa said. "This is the one place where many of the most successful scientists and designers in North America meet to acquaint each other with new methods and applications for using simulation to improve our world."

Highly anticipated presentations from technology leadership will feature insights on emerging trends and the company's future vision. Numerous breakout sessions will showcase the application of CAE tools in such areas as performance optimization, lead-time reduction, composite design, lightweight design, process automation and more.

The [ATC global series](#) collectively draws thousands of professionals from a wide range of disciplines around the world, who share best practices using computer-aided engineering (CAE) methods to develop light-weight, durable, and efficient products. Solutions to some of the most complex problems in engineering, sciences and business analytics are discussed. These conferences and seminars showcase hundreds of user-led case studies that illustrate innovative ways to employ simulation for better design.

One of the most compelling reasons to attend an ATC is the opportunity for participants to network and exchange views on industry issues. Networking events at the Americas ATC will include the welcome reception on May 5 and an after-hours social gathering on May 6.

Registration is available online at www.altairatc.com/registernow.

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Delcam to Show New PowerSHAPE Pro Reverse Engineering Tools at Rapid

27 March 2015

Delcam will launch the 2015 R2 version of its [PowerSHAPE Pro](#) software for the design of products and tooling on Booth #933 at the [Rapid conference and exhibition](#) to be held from 18th to 21st May in Long Beach, California. The new release includes a number of new options for reverse engineering as well as improvements to speed up and simplify the editing of product designs to make them more suitable for manufacture.

By offering a combination of solid, surface and direct modelling, together with reverse engineering, PowerSHAPE Pro provides the most comprehensive range of design techniques available in a single

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CAD program. Having all the different technologies in the same package reduces the need to transfer data between multiple programs and so streamlines any product-development process that requires both reverse-engineering and CAD functionality.

PowerSHAPE Pro can connect directly to most scanning hardware to capture and display scan data in real time. The 2015 R2 version includes a new split-screen alignment option that makes it quicker and easier to combine multiple scans, taken, for example, from the opposite sides of a part. The new method also allows more accurate snapping of alignment points, giving greater accuracy in the resulting single model.

PowerSHAPE Pro can be used to take cross-sections through the scan data to generate wireframe for the generation of surfaces. The wireframe can be simplified automatically into lines and arcs, reducing the number of points needed to describe the item and giving more precise geometry for the re-engineering of the model.

Another new option is the ability to morph a complete solid or surface model to a mesh. This can be used to compensate for spring-back when pressed parts are released from their tooling. Morphing can be used to update a nominal CAD model to match the part as it is made in reality or to modify the surfaces of the tool so that the part can be produced in the desired shape represented by the CAD model.

On the modelling side, analysis of models has been made easier as the Smart Feature Selector now displays the type and parameters of each feature interactively as the cursor is moved around the model.

In addition, the ability of the Smart Feature Selector to find, select and edit multiple similar features has been extended. Now, any number of items of the same type, not just similar features, can be edited in a single operation. For example, all the arcs within a model could be set to the same diameter or all the holes could be made the same depth.

Two enhancements have been made to the tools for the creation and editing of curves. Firstly, the Composite Curve tool has been more efficient so that it needs fewer clicks to create the curve, even when following fragmented edges. Secondly, the Re-point dialog now displays the deviation between the original curve and the new one, and it is also possible to re-point a curve to a known tolerance. This makes it even easier to create high-quality, smooth surfaces when re-engineering scan data or when remodelling an existing design to allow it to be manufactured.

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European Preview for Newly Renamed PartXplore's 2015 Release, at Industrie Expo, Lyon 2015

26 March 2015

PartXplore, the powerful, fully featured, high speed CAD file viewer and analyser from Vero Software will have its European launch at Industrie 2015. Previously known as WorkXplore 3D, the product has been renamed PartXplore, and can now be accessed through the wider Vero product portfolio.

The latest release of software will be on display to visitors at booth Y87 in Hall 6 at the Eurexpo Lyon Exhibition Centre from April 7th – 10th. PartXplore 2015 contains many innovative features usually found in high-end CAD systems which enable to the user to perform part diagnostics, create assembly instructions and prepare the production of 3D models. Technical Manager Philippe Deletang says the 2015 release of software focusses on new functions and improvements, providing solutions for mobile devices, realistic animations, and processing large files.

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“Thanks to the new Xplore Mobile application, geometric items – models 3D models, and ancillary data such as annotations, measurements and wireframes – can now be exported to Android and IOS mobile platforms, ensuring PartXplore data can be accessed on the move.”

The animation engine has been enhanced to make animation sequences more realistic, which simpler to create.

A new batch conversion process translates large native CAD files, or a large number of individual files into the PartXplore format. In previous versions of the software the application could not be used during the conversion process. However, the new tool permits the conversion process to run in the background, while the user can continue to work as normal.

PartXplore 2015 introduces new surface patching functionality which allows surface construction by defining contour curves, In addition, ISO NC file simulation which as well as enabling toolpath trajectory display also offers users the ability to analyse and simulate such files compliment this new version.

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Kenesto Drive goes LIVE at Develop3D

25 March 2015

Kenesto Corp today announced that its innovative solution for file management and collaboration, called Kenesto ***Drive***, is now available to its subscribers for use.

Kenesto ***Drive*** is the latest innovation for mainstream engineering companies designed to serve as an alternative to the commonly used shared network drive. Going well beyond what consumer-grade document collaboration solutions offer, Kenesto ***Drive*** enables innovatively simple file collaboration, automatic versioning, simple file locking (vaulting), and much more – all directly from within the user’s desktop applications and file managers.

One of the most important aspects of Kenesto ***Drive*** is that it has been built from the outset to support CAD and other engineering file types. Being that the desktop service interfaces with cloud storage, customers no longer have to worry about their shared drive’s back-up status, about files being accidentally deleted, moved, overwritten, or accessed by unapproved users. Yet, at the same time, the very cloud-centric nature of Kenesto’s solution offers built-in ability to share and collaborate with team members both inside and outside the company.

The Kenesto ***Drive*** desktop service can be downloaded for use by Kenesto subscribers immediately from the Kenesto Support page on their website. The Kenesto ***Drive*** be automatically updated to reflect the latest enhancements and capabilities as they become available.

To learn more, schedule a demonstration by contacting Leslie Minasian at Kenesto. The Kenesto ***Drive*** will also be showcased in the Kenesto booth on Thursday March 26th at the Develop 3D Live 2015 conference at the Warwick Arts Centre in Warwick, United Kingdom.

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Mastercam at PMTS 2015

25 March 2015

PMTS 2015 attendees will receive a sneak peek at the most powerful Mastercam machining software yet. Stop by booth # 437 at the Greater Columbus Convention Center in Columbus, OH, April 21-23 for a look at Mastercam Swiss, Mastercam Mill-Turn, and the recent Mastercam X8 release. Mastercam X8 introduces new Solids features, Usability/Workflow improvements, and so much more.

Mastercam Swiss

Mastercam Swiss is specialized CAD/CAM for precision programming. The software is designed to program Swiss-style NC machines, and is popular with watch-making, medical device, dental, automotive, and electronics companies—industries where extremely small but very precise parts are a requirement. Mastercam Swiss is developed in the same region of Switzerland where Swiss-style machines were invented. It is known for supporting an unlimited number of axes and channels, and for realistic simulation of the entire machine and its tools. Mastercam Swiss reduces startup time significantly, is ideal for optimizing cycle times, and supports all types of tooling.

Mill-Turn

Mastercam Mill-Turn makes machining on today's high-powered turning centers and full-function machining centers simpler and easier than ever before. Mastercam streamlines the programming process on these complex machines with intelligent job setups that are keyed to the exact machine in your shop. Utilizing intelligent work plane selection, it's as easy as selecting the spindle and turret you wish to utilize, and creating your toolpaths using Mastercam's proven milling and lathe toolpaths.

Dynamic Motion Technology in Mastercam X8

Dynamic Motion toolpaths follow a proprietary and sophisticated set of rules that take into consideration a broad data set. To create the most efficient cutting motion possible, Dynamic toolpaths calculate not only the area where metal will be removed; they also take into account the changing condition of the material throughout various stages of machining.

Also available in Mastercam X8:

- Improved usability and the ability to customize the way you work.
- The Solids interface and workflow has been completely redone for Mastercam X8 and makes constructing and editing solids easier and more intuitive than it's ever been.
- Graphics display has been upgraded to provide cleaner aesthetics, and clearer, more responsive selection while delivering a much improved overall look and feel.
- Mill-Turn includes the ability to define and select reference positions for the approach and retract moves in operations.
- Multiaxis Roughing is a new strategy which allows for the easy creation of multiaxis pocketing toolpaths to rough out pockets based on a floor or ceiling shape.

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NGC's 2015 Panorama User Conference to Focus on Key Issues, Hot Topics in Retail and Fashion Industry

24 March 2015

CIMdata PLM Industry Summary

Leading brands, retailers and fashion and business technology experts will focus on industry challenges and strategies for innovation at the [NGC® 2015 Panorama User Conference](#), May 18-21 in Ft. Lauderdale.

The Panorama User Conference combines thought leadership from retail, business and consumer marketing experts, as well as NGC executives, technical experts and customers. It is designed to help customers get the most from their investments in NGC's fashion PLM, Supply Chain Management, ERP and Shop Floor Control software. Panorama 2015 includes sessions designed for every level in a company's organization, whether companies are in the midst of software implementations or longtime NGC software users.

Highlights of NGC's Panorama Conference include keynote presentations from:

- Paula Rosenblum, Managing Partner of Retail Systems Research, speaking on *"Omni-channel Supply Chain Challenges"*
- Dr. Martin A. Regalia, Senior VP and Chief Economist for the U.S. Chamber of Commerce, speaking on *"Dysfunction in Washington: the U.S. and Global Economic Outlook"*
- Jerry Inman, Chief Marketing Officer and Paula Levy, Chief Strategy Officer for Demand Worldwide, speaking on *"The Retail Rebels: Who Will Conquer the Connected Consumer?"*

Panorama 2015 includes dozens of additional sessions, such as:

- Customer panel discussions on implementation challenges and successes, as well as the strategic outlook for the fashion industry
- In-depth, informative case studies led by NGC customers
- Product education tracks dedicated to fashion PLM, Supply Chain Management, ERP and Manufacturing/Shop Floor Control
- Informational sessions led by NGC partners
- One-on-one meetings with NGC technical services, consultants, solution experts and NGC management

"Panorama is *the* event of the year for NGC customers, and we're excited about the world-class lineup of speakers and thought leaders at Panorama 2015," said Fred Isenberg, president of Consulting Services for NGC. "The feedback from our customers at the last Panorama was outstanding, and we've raised the bar even higher this time. We look forward to hosting NGC customers from around the world and helping them focus on new strategies for innovation and success."

NGC's 2015 Panorama User Conference will be held at the Ft. Lauderdale Ritz Carlton, May 18-21; a complete agenda is available [here](#). Panorama 2015 is designed for NGC customers and select prospects; visit the website for more information and details.

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Polygonica to Showcase Advanced 3D Printing Software Tools at AMUG

25 March 2015

MachineWorks Ltd, will be demonstrating the Polygonica software toolkit for 3D Printing at the AMUG

CIMdata PLM Industry Summary

Expo in the Hyatt Regency Jacksonville, Florida, from April 19 to 23.

The annual meeting of the Additive Manufacturing Users Group dates back to the early 1990s and has grown to become the leading forum for educating and advancing the uses and applications of additive manufacturing technologies. The Polygonica team will be exhibiting for the second year running.

In particular, we will be demonstrating some of the new features of Polygonica aimed at the next generation of 3D printing technology. This includes Polygonica's unique full colour mesh healing and slicing capabilities. As more companies announce full colour printers, it is vital that software products keep pace with hardware development.

Polygonica can fully heal meshes - closing open edges and holes and removing self-intersections and non-manifold edges - whilst maintaining and carefully interpolating colour information. This can include face and vertex colours, or multiple texture maps. The meshes can then be sliced ready to be sent to the printer. In many cases, the printer requires the slice to be defined as a thick coloured band or ribbon and Polygonica's profile offsetting takes care of that.

Another development is a different approach to the problem of ensuring the printability of models. Some printing technologies may have problems with very thin geometry, which could break or deform during or after printing. A common approach to determining the location of such geometries is to perform ray-tracing to determine the thickness of the model, and Polygonica has provided this facility since the first release. But such a brute force approach can often lead to false positives.

A new approach can check for thin and problematic areas of a model by performing a detailed mesh analysis based on a double offset of the mesh, followed by a comparison between the original and offset mesh. This is in addition to existing mesh analysis features such as interference checking and the calculation of the optimal rotation of a mesh on the print bed.

"These features provide a rigorous approach to optimising the Additive Manufacturing workflow", said Dr David Knight, Polygonica Sales Manager at MachineWorks. "Polygonica now provides an extensive set of complex algorithms to help prepare models for printing in addition to its powerful automatic mesh healing engine."

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'Rocky Steps' Pave Path to Vectorworks Customer Appreciation Party at the Philadelphia Museum of Art

20 March 2015

The iconic "Rocky Steps" will lead attendees of the Vectorworks Design Summit to a Customer Appreciation Party at the Philadelphia Museum of Art on Tuesday, April 28, 2015. Hosted by global design software developer Nemetschek Vectorworks, Inc., the party will bring together architecture, landscape and entertainment design visionaries, Vectorworks software engineers and global partner product providers for a night of fun, which begins at 7 p.m. and ends at 11 p.m. ET.

In addition to dinner and an open bar, attendees will enjoy Back2Life, a high-energy, eight-piece dance band, as well as access to world-class holdings of European and American paintings, prints, drawings and decorative arts, including the current Japanese exhibit, "Ink and Gold: Art of Kano." Party attendees will also get to see the visual impact of a Vectorworks design first-hand as a local Vectorworks user has signed on to light the museum party.

“Having such an iconic museum as a backdrop to the software training and networking I will experience as an attendee at the Vectorworks Design Summit is such an asset to all members of the design industry,” said Luc Lefebvre, OAQ, senior project architect and BIM manager at King + King Architects. “The venue will serve as a perfect complement to the Summit’s ground-breaking discussions and networking events, providing additional inspiration through creative artistic and architectural achievements worldwide.”

Taking place at the Sofitel Philadelphia hotel on April 27-29, 2015, the Vectorworks Design Summit will provide dynamic keynote presentations, plus engaging thought-leadership breakouts, product development insight, fun evening events and training to help designers make the most of Vectorworks software and transform the world with great design. View agenda and speaker details [here](#).

The Customer Appreciation Party is included with the cost of registration to the Summit, or event tickets can be purchased individually. Registration and ticket information is available on the [Vectorworks Design Summit webpage](#).

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Financial News

C3D Labs Year in Review

27 March 2015

C3D Labs today announced its results for the year 2014. Following the trend set in 2013, the company's revenues again nearly doubled, growing by 95% year over year.

New C3D Customers

C3D Labs is responsible for the development of the C3D geometric modeling kernel, and so it is pleased that in 2014 five more companies chose to implement C3D. This means that 15 CAD development firms now use the Russian-developed kernel in their 3D software.

C3D Labs' new customers are international and local. From South Korea, Solar Tech develops Quick CAD/CAM. From Ukraine, Dynamics & Structures Lab. and their Belinda Structure for engineering analysis. And from Russia, NIP-Informatica develops TECHTRAN.

Companies that already license the C3D kernel are now launching their C3D-based products on the market. Here are just a few examples:

- K3-Furniture 7.3 from GeoS Center
- Geometry Comparison (LGC) from LEDAS
- BAZIS 9 from Bazis-Center
- PASSAT 2.08 from NTP Truboprovod

C3D Labs parent company and primary customer ASCON Group launched the V15 releases of their 3D modeling systems KOMPAS-3D and KOMPAS-Builder. The latter is a CAD system geared towards the construction industry. The new Renga Architecture (<http://rengacad.com/en/>) software is also built on C3D. It is a 3D architectural design software package which ASCON plans to launch at the end of March.

Trade Shows and Resellers

C3D Labs last year participated in CEBIT, the major European IT trade fair. In addition, the company organized briefings on the future of geometric kernels at the annual COFES conference in USA, and held a series of sessions for CAD developers in Seoul, South Korea, and Novosibirsk and Tomsk, Russia.

Korean company Solar Tech became a C3D reseller in the Asian-Pacific Region. Indian company ProtoTech Solutions was chosen as C3D's technology partner.

Software Updates

C3D Labs celebrated the start of 2015 with the new version of the geometric C3D V16 kernel, the result of a 12-month joint effort of the development team led by Dr. Nikolay Golovanov. The functionality, performance, and reliability of all three C3D modules – Modeler, Solver, and Converter – were significantly improved. Among the kernel's new features are a version for Mac OS X, extended support for Linux, and the addition of C# as one of the programming languages.

The company launched Russian and the English versions of its Website at www.c3dlabs.com.

For the first time, C3D Labs conducted a survey of its user on the kernel's performance and interaction with developers. It is worth noting that technical support was rated very high by users, which is solid proof that the company provides prompt and efficient user feedback. Such surveys will be held on an annual basis.

New Appointments

Eduard Maksimenko was appointed the new head of application software. As part of the C3D Labs team, Mr. Maksimenko is responsible for the C3D kernel' programming environment, its interoperability with third-party components, test applications, and other areas of the C3D kernel's development.

Mr. Maksimenko graduated from Moscow State Open University after majoring in Management and IT in technical systems. He also holds a Ph. D. in Engineering from Nizhny Novgorod State Technical University. He has been with ASCON since 1997, participating in the development of the modeling part of KOMPAS-3D, testing tools of the mathematics, creating a large number of interface solutions for editing and creating objects, as well as working on the MFC- and BCG-based GUIs for KOMPAS-3D.

Yuri Kozulin was appointed deputy head of the mathematics department. In his new capacity, Mr. Kozulin will be responsible for the general management of the department and external customer support.

Mr. Kozulin graduated from the Moscow Institute of Physics and Technology (State University), where he first majored in Applied Mathematics and Physics, and later entered a post-graduate program in Mathematical Modeling, Numerical Modeling, and Program Complexes. He holds a Ph. D. in Engineering from the same university. He has been with ASCON since 2005, starting as a programmer. More recently, he was the lead developer of the C3D Modeler. Mr. Kozulin contributed significantly to the kernel's development by implementing continuous metric-error principles in the development of algorithms, special cases of surface and curve intersection, improved the functionality and efficiency of numerous surface and solid modeling operations, as well as projection of curves, surfaces, and objects.

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Nemetschek Group Proposes Considerably Higher Dividend and Plans Stock Split

26 March 2015

The supervisory board of Nemetschek AG approved the dividend proposed by the executive board. The considerable dividend increase to EUR 1.60 per share is in keeping with the very positive business development in 2014. Executive and supervisory boards will submit the dividend proposal to the annual general meeting for resolution on May 20, 2015. Thus, compared to the previous year (EUR 1.30 per share), the dividend will increase by approximately 23%. With 9,625 million shares entitled to a dividend, the total amount of dividends to be distributed should increase to EUR 15.4 million (previous year: EUR 12.5 million). The dividend payout ratio for the 2014 fiscal year is therefore approximately 35% – in relation to the operative cash flow amounting to EUR 44.2 million.

Furthermore, the executive and supervisory boards will propose a stock split at a ratio of 1:4 to the annual general meeting. Every shareholder is to receive three additional shares for every Nemetschek share held at no further charge. The price of the Nemetschek share has almost tripled in the past two years and is currently quoted at about EUR 120. Given that the overall value remains the same, the estimated price level per share for the shareholders will be divided by four. The planned stock split is to promote Nemetschek share trading and make the share even more attractive to investors. As a result of the split, the share capital of Nemetschek AG would quadruple from the present 9,625,000 to 38,500,000.

As announced, the Nemetschek Group will publish the 2014 annual report on March 31, 2015.

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Implementation Investments

Dynamatic Oldland Aerospace Partner with SteepGraph Systems to Implement Aerospace Program Management Systems using PLM framework

25 March 2015

SteepGraph Systems announced today that they have partnered with Dynamatic Technologies Ltd, One of India's fastest growing Aerospace manufacturing company in the private sector, for implementation of Aerospace Program Management Systems for managing their aerospace manufacturing projects.

DYNAMATIC-OLDLAND AEROSPACE, the aerospace unit of Dynamatic Technologies Ltd is a demonstrated leader for the development of exacting Airframe Structures and Precision Aerospace Components. The Company's modern Aerospace Manufacturing Complexes in India and UK supplies critical aero structure assemblies and parts to leading global aerospace OEM's namely Airbus, Bell & Boeing apart from supporting the domestic aviation industry.

SteepGraph Systems has implemented the program management system for Dynamatic Oldland Aerospace which helps Dynamatic to manage the complete lifecycle of the aero structures manufacturing starting from loading large BOM from customer, linking tools, defining Integrated Master Project, defining sub projects with series of manufacturing processes for each part and setting

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dependency on tools, Jigs and sub-assemblies. This system enables Dynamatic to manage program at macro level as well as micro level with view of current work load on shop floor, QA and with vendors. Entire process of part progress tracking is being used for FAI, Ramp-up and series production. With LOB reports, assembly dependency report, Jig wise reports, shipset reports and master IMS scheduling helps Dynamatic to present to accurate status to customer, prioritization and plan the activities.

“DYNAMATIC-OLDLAND AEROSPACE is most reputed company in private sector working as Tier-1 supplier for large aerospace OEMs globally. Key success factor for this achievement for Dynamatic is strong industry knowledge & experience, managing manufacturing of large & complex aero structure and following the best program management practices to win confidence of customer, bring transparency and efficiency. SteepGraph is committed to help the Dynamatic to achieve their goals with strong experience in PLM (Product Lifecycle Management) for Aerospace industry.” said Mr. Himanshu Zalavadiya, CEO, SteepGraph Systems

“In our quest to achieve best in class practices, we not only established, state of the art modern facilities but also seek to implement world class practices. The Program Management system solution provided by SteepGraph Systems, helps us have a clear view of program status, take appropriate corrective and preventive actions on time, reduce risks and ensure Quality delivery on schedule”, said Mr. Subodh R, Deputy COO, Dynamatic Oldland Aerospace. “We value SteepGraph Systems’ expertise and approach to bring results to table. This partnership between Dynamatics and SteepGraph Systems has resulted in the implementation of an effective, technology based Program management system that is acknowledged by our exacting global aerospace customers.”

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El Corte Inglés Selects Dassault Systèmes’ 3DEXPERIENCE Platform to Accelerate Fashion Collection Time-to-Market

26 March 2015

[Dassault Systèmes](#) today announced that [El Corte Inglés](#), a leader in large department stores, has selected its “My Collection for Fashion” industry solution experience to accelerate time-to-market of its private-label fashion collections. Powered by the 3DEXPERIENCE platform, this adoption allows El Corte Inglés to transform its business processes with robust, global collaboration capabilities and more effectively meet consumer demand.

As one of the largest department store groups in the world, El Corte Inglés needed to implement industry-specific best practices that would standardize product development and sourcing processes across all of its private-label brands. The “My Collection for Fashion” industry solution experience provides El Corte Inglés with a single and unified digital environment that connects internal and external stakeholders, integrates their supply chain, and improves visibility, flexibility and decision support for multiple and diverse product categories. With “My Collection for Fashion,” El Corte Inglés accelerates time-to-market of its products and mitigates the risk of incorrect samples, additional costs and production errors or delays.

“The consumer goods and retail industry is in the midst of a consumer-driven revolution,” said Susan Olivier, Vice President, Consumer Goods and Retail Industry, Dassault Systèmes. “Consumers expect new products and new shopping experiences, and our industry solution experiences have been designed

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to meet these expectations through a combination of global team collaboration and information in a social context – with clarity, confidence and consistency.”

Dassault Systèmes’ “My Collection for Fashion” industry solution experience applies collaborative innovation to product development and the consumer experience in order to enhance a brand’s identity. Brand retailers can rely on applications that encompass global sourcing and global collaboration, consumer-led design, virtual prototyping, virtual stores and channels, integrated merchandise assortment planning, product development and social analytics.

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Evonik Awards New Collaboration Cloud Services Contract to Atos

24 March 2015

Evonik, a global specialty chemicals company, has awarded a new contract to Atos to support the major transformation of its IT communication and collaboration systems for employees.

Under the contract, Canopy, the Atos Cloud, will implement and run a private cloud solution to create a fully cloud enabled platform providing collaboration and communication applications in a pay for usage model. The Canopy “A3C” solution based on Microsoft technology enables Evonik to make use of the newest collaboration software, now and in the future. Evonik will also be able to adapt this environment as business needs change without need for investment in assets.

The new Unified Communication & Collaboration environment replaces the actual Lotus Notes environment. The “A3C” solution includes the Microsoft applications for Lync, SharePoint and Exchange and will be operated in a private cloud for Evonik. Atos will manage the migration to the cloud and the operations of the private cloud environment.

”With the Atos “A3C” solution, we will have a powerful, progressive and reliable collaboration solution for our everyday work”, said Dr. Bettina Uhlich, CIO at Evonik Industries AG. ”We are convinced of the benefits of a private cloud which provides flexible capabilities combined with high European data protection standards. We have chosen Atos for its high quality solution and cost effectiveness. We also were particularly pleased about the excellent collaboration between the Evonik and Atos teams”.

“Our long-term cooperation with Evonik Industries AG is now heading into a new dimension,” says Martin Wibbe, VP and COO of Manufacturing, Retail & Transportation services at Atos. “As Europe’s largest provider of cloud services we offer cost-effective and flexible performance for the benefit of Evonik. We are excited that Evonik has taken its first strategic step into the cloud with us.”

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Straumann Adopts Dassault Systèmes Sustainable Manufacturing Operations Management

26 March 2015

Straumann will leverage Dassault Systèmes to digitize their [manufacturing operations management](#) processes. This conversion can increase efficiency while improving operational agility.

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Straumann faced increasing challenges surrounding logistics flow, archiving and the need for increased compliance and efficiency. The company will implement a DELMIA Apriso [Paperless Manufacturing](#) solution to address these challenges, with a goal of improving operational flexibility and responsiveness. The adoption of paperless manufacturing processes – including electronic Device History Records (eDHR) – can shorten lead times, ease access to relevant batch data and reduce replenishment cycles while maintaining regulatory compliance.

Andrew Lowe, Straumann's plant manager in Villeret, Switzerland commented, "Dassault Systèmes shares our passion for quality, innovation and operational excellence. As a Life Sciences manufacturer, achieving a paperless workflow is an important capability to provide the necessary functionality, flexibility and quality assurance for our global medical device batch manufacturing processes."

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TOTAL E&P NORGE AS goes Virtual with AVEVA

25 March 2015

AVEVA announced that TOTAL E&P NORGE AS (TOTAL) has chosen AVEVA Activity Visualisation Platform™ (AVEVA AVP™) to support training activities on its Martin Linge topside platform in the North Sea. Seeking an immersive training environment to facilitate advanced training for their HSE (Health, Safety and Environment) and other scenarios, TOTAL chose AVEVA after a competitive selection process.

'TOTAL required a captivating advanced training solution to provide an accurate and realistic environment to familiarise staff early, thoroughly and safely prior to deployment on-site in the North Sea', said Derek Middlemas, COO and Head of Enterprise Solutions, AVEVA. 'While the facility is still under construction, the ability to perform realistic training scenarios in a virtual environment is important for initial safety familiarisation activities. Later, such training methods provide a risk free environment to practice more complicated and hazardous training scenarios throughout the life of the platform. AVEVA AVP, part of AVEVA's advanced Immersive Training offerings, reduces the need to go on-site, thus resulting in reduced costs and saving of time.'

AVEVA's unique Digital Asset approach enables solution delivery teams to enhance the use of detailed design models for purposes other than traditional design and construction activities. AVEVA's Immersive Training solutions provide a software platform allowing owner operators to tailor and repurpose design models for training, simulation and operational readiness activities. Virtual training environments created using AVEVA AVP can enhance traditional training effectiveness in a manner that reduces overall training costs.

Mr. Middlemas added, 'TOTAL's selection of AVEVA AVP for its Martin Linge Advanced Immersive Training solution is an important milestone in AVEVA strategy. AVEVA looks forward to working with TOTAL on this effort to maximise use of their AVEVA PDMS and AVEVA E3D models to further Owner Operator activities in training and simulation.'

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Vertu Creates the Extraordinary with PTC

24 March 2015

[PTC](#) today announced that Vertu, a leading manufacturer of luxury mobile phones, has replaced its legacy software with PTC solutions. With PTC solutions, Vertu will be able to reduce its design cycles by 50%.

By combining handcrafted materials, leading technology and a suite of luxury services, Vertu has created the world's most exclusive range of mobile phones and accessories. Vertu selected PTC Creo® [CAD] software for the development of its exceptional mobile units and PTC Windchill® [PLM] technology for the enterprise backbone that links its design teams together, across the globe.

PTC solutions give Vertu the capability to collaborate on product designs in a single digital 3D environment. This means that Vertu engineers and their key global supply partners are able to collaborate together in real time anywhere in the world using common data and embedded communication tools. Vertu has eliminated data translation from its key development process, increased the efficiency of collaboration and significantly reduced data exchange errors. The seamless implementation of the new enterprise-wide system took fewer than 10 months, the timing being imperative to achieving Vertu's aggressive goals.

Vertu also implemented the PTC Precision LMS eLearning solution to ensure fast-track conversion from its legacy CAD system and meet its ambitious deployment schedules. PTC Precision LMS provides training content directly to end users and is the basis for instructor-led classroom training.

“Vertu is the global leader in its category, known for combining extraordinary materials with the latest technology and exclusive services, including the renowned Vertu Life and Concierge Service,” said Mike Campbell, executive vice president, CAD Segment, PTC. “Now, harnessing PTC technology, Vertu will be able to reduce design cycles by 50%. We are pleased to be able to support this unique enterprise and assist Vertu as the brand grows.”

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YuniquePLM Streamlines Processes for High-end Fashion Brand V•Grass

20 March 2015

China-based high-end women's fashion brand V•Grass® has chosen to implement [YuniquePLM™](#) to improve communication and collaboration within its design, development and manufacturing divisions.

V•Grass will implement Yunique Solutions' plmOn and srmOn platforms to enable efficient collaboration between their internal teams and their vendors and suppliers. Gerber's team of international experts and its regional experience will assist with planning, design, real-time visibility and efficient communication and collaboration. V•Grass operates facilities in Italy, South Korea, Nanjing and Shanghai.

V•Grass was founded in 1997, and in December 2014 became publicly listed on the Shanghai Stock Exchange. The company offers high quality, tasteful apparel with painstaking attention to detail on color, fabric and construction, necessitating strong development guidelines and efficient monitoring of the supply chain. By centralizing its data, V•Grass can focus on its core business goals and development

of upcoming lines.

"More and more Chinese-based brands are turning to PLM to accompany their future growth prospects," said Bill Brewster, vice president and general manager of Yunique Solutions. "We are pleased to add V•Grass as a partner to our list of many of the world's leading brands, and look forward to helping them achieve greater efficiency and growth."

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Product News

AutoCAD 2016 Helps Design Every Detail with Rich Visual Accuracy

23 March 2015

[Autodesk, Inc.](#) today announced the availability of [AutoCAD 2016](#), the latest release of one of the world's leading computer-aided design (CAD) applications.

The 2016 release includes scores of new features that accelerate the 2D and 3D design, documentation and collaboration process while enriching the on-screen experience of creating almost any shape imaginable. In addition, users can confidently share their work with others using TrustedDWG™ technology, the original and most accurate way to store and exchange design data.

"AutoCAD 2016 makes detailing and documentation work faster, while stunning visual enhancements bring a new level of clarity and depth to every aspect of a design," said Amy Bunszel, vice president of AutoCAD products, Autodesk. "Our customers will also appreciate productivity boosts like enhanced PDF output and tighter coordination with Building Information Modeling (BIM)."

"The enhancements brought this product to another level," said senior architect, Dr. Santi Maggio Savasta, M.Arch, Ph.D., with [Santi Maggio Savasta Architect](#). "The improvements brought to dimensioning and text editing, not to mention the whole section related to the drawing aids, allow you to be more effective and quick, giving you a real-time preview of what you are doing, while you are doing it."

An Enhanced Visual CAD Experience

Improvements to the drawing canvas in AutoCAD 2016 dramatically improve the visual accuracy seen on screen. Enhanced readability and detail means smooth curves and arcs replace jagged line segments. AutoCAD now takes full advantage of the latest graphics hardware to deliver a richer, yet faster, visual experience. Users can predict more results and minimize the need to "undo" a command with expanded Command Preview. Other enhancements include:

- AutoCAD 2016 also outputs enhanced PDFs that are significantly smaller, while retaining visual fidelity. PDFs are now fully searchable, maintain all hyperlinks and can be attached to drawings faster.
- Improved Smart Dimensioning automatically creates appropriate measurements based on the type of objects selected, making it easier to accurately calculate measurements based on the drawing context.

Together with new features for [reality computing](#) and BIM coordination, the tools in AutoCAD 2016

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help users significantly increase efficiency and maximize productivity—clearing the way to faster, more precise design and documentation.

Availability

AutoCAD 2016 products are available immediately, and availability varies by country. Additionally, several purchase options are available. Users can choose a perpetual license with or without [Maintenance Subscription](#), or a [Desktop Subscription](#) with pay-as-you-go monthly, quarterly, and annual options. In addition to flexible licensing, Desktop Subscription gives users access to the latest updates and releases, one-on-one technical support, and priority support in the forums.

[Download a 30-day trial](#) of AutoCAD, [purchase an AutoCAD license](#), or learn more at autocad.com.

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AVEVA Diagrams Collaboration Capabilities Set to Drive Productivity Results

24 March 2015

AVEVA today announced the latest release of AVEVA Diagrams, engineering software that enables the creation and delivery of intelligent P&IDs and other schematics. This major software update will enable process and systems engineers to collaborate more efficiently on multi-discipline projects thereby eliminating errors and inconsistencies that could otherwise lead to costly subsequent rework.

‘AVEVA Diagrams is much more than just a schematics design program’, explains Dave Wheeldon, Chief Technology Officer, AVEVA. ‘It is a sophisticated, object-centric application with the ability to effectively create engineering and design data. At the same time, it can control and communicate change across multi-discipline projects that deliver real cost, quality and schedule benefits to our customers’.

AVEVA has developed the latest version of AVEVA Diagrams working closely with customers, including the defence and security company, SAAB. Mr Wheeldon added, ‘AVEVA Diagrams is a key application within our customers engineering software and we were very happy they were able to provide feedback to AVEVA regarding its future development. Feedback has included that the enhancements can enable engineers to optimise their use of AVEVA Diagrams quickly and easily to work more productively on projects requiring fewer iterations to develop a final, fully compliant and accurate schematic design. Companies have already experienced the benefit of reduced man-hours and improved quality across entire projects’.

Importantly, AVEVA Diagrams also makes it easy to export information to third-party solutions and integrates easily with other AVEVA engineering and design products, including AVEVA Everything3D. This enables the control and sharing of a common set of project information across all disciplines, a prerequisite for the development of Lean Construction methodologies.

AVEVA Diagrams is part of AVEVA’s Integrated Engineering & Design solution, which dramatically improves design and engineering process efficiency for major capital projects, as well as for asset modification and revamps.

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BIM Collaboration Format and Simplified Geometry Model View Definition Enhance Experience for Vectorworks Users

26 March 2015

Nemetschek Vectorworks, Inc., has announced new functionalities for its [Vectorworks 2015](#) line of design software including the BIM Collaboration Format (BCF) Importer and the Simplified Geometry Model View Definition (MVD). These two features are part of Service Pack 3, which also includes other improvements.

BCF Importer

The new [BCF Importer](#) allows users to read BCF files from collaborators to view project model issues directly within the context of the Vectorworks model. Now users can review and resolve issues that may require changes to the architectural model without having to switch between Vectorworks and another application.

Simplified Geometry MVD

The Industry Foundation Classes (IFC) schema is evolving to accommodate many different user configurations and levels of detail. To meet the expanding needs of users, Vectorworks software now offers an additional IFC export option for defining the model view. The Simplified Geometry MVD allows Vectorworks users to export IFC files optimized for other software programs that can only import a limited set of simple geometry types.

Additionally, a new option called “Export Walls/Slabs by components” has been added to the Export IFC Project dialog box. This option optimizes the export of IFC files for use by estimating software such as BIM2COST. These improvements increase interoperability between BIM software applications, as well as enhance communication among design disciplines.

“As the adoption of Open BIM workflows continues to increase among our users, we continue to develop new functionality to enable architects to collaborate in a flexible way and communicate using their Vectorworks building information model,” said Jeremy Powell, director of global product marketing at Nemetschek Vectorworks. “The Simplified Geometry MVD and BCF Importer allow for more flexibility and interoperability between Vectorworks software and other programs.”

In addition to the new functionalities, Service Pack 3 includes these improvements:

- Improved performance with high resolution monitors such as the 5K Retina iMac
- Improved default data supplied when exporting to IFC
- Improved support when exporting PDF/A-1b files with the Publish command

Service Pack 3 is available for all licenses as a downloadable updater. To install it, [click here](#) or access the “About Vectorworks” dialog box from the “Vectorworks” menu (Mac users) or select “Check for Updates” from the “Help” menu (Windows users).

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Dassault Systèmes Introduces the 3DEXPERIENCE Platform for Academia on the Cloud

26 March 2015

CIMdata PLM Industry Summary

[Dassault Systèmes](#) today announced that its 3DEXPERIENCE platform for Academia is available on the cloud. The academic field now has simplified and secured access to Dassault Systèmes' product design, digital manufacturing, realistic simulation and collaborative innovation applications on the cloud that have transformed industrial processes worldwide.

For several years, Dassault Systèmes has collaborated with educators and students across various institutions and disciplines in order to create a flexible, tailored set of solutions that would place easy and natural collaboration between teachers, researchers, students and industry mentors at the center of social innovation.

The 3DEXPERIENCE platform for Academia on the cloud helps teachers and students save time and ease workloads and project execution through innovative teaching and learning practices, all while delivering the technical benefits of the cloud—easy deployment and maintenance, and secured data access anytime, anywhere on a student's or an institution's own devices that eliminates the need for complex IT infrastructure.

The disciplinary reach of the new platform has been significantly extended to support educational, research and organizational processes in design and engineering, systems engineering, manufacturing and now architecture and civil engineering.

“Getting the 3DEXPERIENCE for Academia on the cloud up and running took just under an hour,” said Michel Michaud, Instructor, École nationale d'aérotechnique in Canada, one of the first to use this cloud offering through a preliminary testing program.

With the 3DEXPERIENCE platform for Academia's intuitive web-based user interface, teachers can easily embark on distance education, massive open online courses (MOOC) or flipped classroom programs with domestic or international collaborative environments. Students can start projects on campus, continue them at home and discuss issues in online communities or screen-sharing sessions. The platform on the cloud ensures that students always have access to the latest version of their work. At any time, teachers can remotely monitor projects, manage idea maturity and assign grades when they have been completed.

In addition, various types of learning material and industry-specific application case studies are made available, and a new certification program provides students with the credentials they need to enhance their employability.

“With Dassault Systèmes' 3DEXPERIENCE platform for Academia on the cloud, the most advanced solution for product and pedagogical innovation is now made available in just a few clicks to educators and students who want to experience the engineering practices of industry leaders for increased employment opportunities in the new global economy,” said Philippe Forestier, Executive Vice President, Global Affairs and Communities, Dassault Systèmes.

The 3DEXPERIENCE platform for Academia's cloud offering is based on a dedicated infrastructure that can be tailored to meet the needs of diverse institutions in secondary, vocational or higher education.

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Delcam adds more Reverse Engineering Tools to PowerSHAPE Pro CAD System

23 March 2015

CIMdata PLM Industry Summary

Delcam has added a number of new options for reverse engineering to its [PowerSHAPE Pro](#) software for the design of products and tooling. The 2015 R2 release of the software also includes improvements to speed up and simplify the editing of product designs to make them more suitable for manufacture.

By offering a combination of solid, surface and direct modelling, together with reverse engineering, PowerSHAPE Pro provides the most comprehensive range of design techniques available in a single CAD program. Having all the different technologies in the same package reduces the need to transfer data between multiple programs and so streamlines any product-development process that requires both reverse-engineering and CAD functionality.

PowerSHAPE Pro can connect directly to most scanning hardware to capture and display scan data in real time. The 2015 R2 version includes a new split-screen alignment option that makes it quicker and easier to combine multiple scans, taken, for example, from the opposite sides of a part. The new method also allows more accurate snapping of alignment points, giving greater accuracy in the resulting single CAD model.

PowerSHAPE Pro can be used to take cross-sections through the scan data to generate wireframe for the development of surface models. The wireframe can be simplified automatically into lines and arcs, reducing the number of points needed to describe the item and giving more precise geometry for the re-engineering of the model.

Another new option is the ability to morph a complete solid or surface model to a mesh. This can be used to compensate for spring-back when pressed parts are released from their tooling. Morphing can be used to update a nominal CAD model to match the part as it is made in reality or to modify the surfaces of the tool so that the part can be produced in the desired shape represented by the CAD model.

On the modelling side, analysis of models has been made easier as the Smart Feature Selector now displays the type and parameters of each feature interactively as the cursor is moved around the model.

In addition, the ability of the Smart Feature Selector to find, select and edit multiple similar features has been extended. Now, any number of items of the same type, not just similar features, can be edited in a single operation. For example, all the arcs within a model could be set to the same diameter or all the holes could be made the same depth.

Two enhancements have been made to the tools for the creation and editing of curves. Firstly, the Composite Curve tool has been more efficient so that it needs fewer clicks to create the curve, even when following fragmented edges. Secondly, the Re-point dialog now displays the deviation between the original curve and the new one, and it is also possible to re-point a curve to a known tolerance. This makes it even easier to create high-quality, smooth surfaces when re-engineering scan data or when remodelling an existing design to allow it to be manufactured.

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Fujitsu Releases New Version of EXAMAG LLG Simulator, Magnetic-Field Simulation Software

25 March 2015

Fujitsu announced the release of a new, enhanced version of FUJITSU Manufacturing Industry Solution EXAMAG LLG Simulator⁽¹⁾, a software package for simulating magnetic fields with support for massively parallel computing. The new version will be available from March 24.

The product simulates the behavior of magnetic bodies, including the speed and stability of the

magnetization process in magnetic materials. When used as part of the development process for hard-drive heads or other memory devices, this software can help reduce the number of prototypes and improve performance. This new version adds the ability to simulate the spin-transfer torque effect, in which the application of an electric current can change the magnetic orientation of an electron. This feature enables simulations of the data recording process of next-generation magnetic memory, which is designed to offer the benefits of higher speeds with lower power consumption. The new version, which now runs on Windows as well as Linux, also includes faster rendering of on-screen graphics showing the calculated behaviors of magnetic bodies.

The product has potential applications in developing new magnetic materials, as well as new magnetic devices that use the spin-transfer torque effect.

Magnetic materials are used in a wide range of magnetic devices, including heads for hard drives, memory devices, DC/DC converters, and non-contact electrical chargers. When designing these devices, it is important to understand the behavior of magnetic bodies, such as the speed and stability of the magnetization process in magnetic materials. This software simulates the movements of electrons when the type, shape, and operating conditions of a magnetic body are changed, helping to optimize the design of a wide range of magnetic devices for improved functionality and performance.

This new version adds the ability to simulate the spin-transfer torque effect, which is being studied as a way to achieve faster and more power-efficient magnetic memory and magnetic heads for higher-capacity hard drives, in order to meet the ongoing need for devices with more functionality and higher performance.

Product Features

The EXAMAG LLG Simulator runs high-speed simulations using massively parallel computing, combining micromagnetics techniques⁽²⁾ and the finite-element method⁽³⁾, allowing PC servers to be used for the intensive computations involved in analyzing the designs of magnetic devices and the magnetization processes of magnetic materials with complex shapes.

Newly added features are as follows.

The spin-transfer torque effect: High expectations for new device development

When a magnetic body conducts electricity, torque is produced between electrons, specifically, by the interaction of electrons conducting electricity and electrons in a magnetic body, which causes a magnetic reversal. This is known as the spin-transfer torque effect. Compared to existing methods for reversing the magnetic orientation of electrons, this acts more quickly and with less power, making it attractive for applications in future devices. This software supports both "spin-charging" spin-transfer torque, in which spin is added to conducting electrons in a magnetic body, and "current-driven" spin-transfer torque, in which the current itself produces the spin-transfer torque. In addition to memory, such as MRAM, it also can be used with the new structure of domain wall motion memory. Another potential use is in analyzing magnetic heads for future hard drives using microwave-assisted magnetic recording (MAMR).

Improved usability

Fujitsu significantly redesigned the user interface to deliver a more comfortable analysis environment, and increased the speed at which simulation results are displayed on the graphics screen by at least ten times. In addition to Linux, the new version also runs on Windows PCs to support a wider range of work environments.

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MainFrame2 Brings CAD Windows Applications into the Cloud

26 March 2015

[Frame](#) (previously Mainframe2), an innovator in virtualized software delivery and leader in bringing Windows applications into the cloud instantly, today announced the public BETA of its new end-user product, furthering its leadership role in bringing the CAD industry into the cloud environment. Frame is exhibiting (Booths 8 and 9) at the Develop3D Live conference in Warwick, UK, as well as participating on a panel on the future of CAD in the cloud with other top industry executives.

Frame has pioneered “rich graphics apps in the cloud” with its platform already in use for more than a year by leading software vendors like Adobe and Siemens. More than 100,000 users have ran Windows apps from the cloud using Frame so far, with no cumbersome installation.

“Three years ago, we envisioned a platform that combines the best of the cloud’s flexibility with the power and reliability of desktop software,” said Dr. Nikola Bozinovic, Founder and CEO of Frame.

“Frame is the only platform that enables engineers and designers to install and run the CAD of their choice on any device. We’re excited to share it with the world for the first time at Develop3D Live.”

Today the company is making the following announcements:

- It is unveiling the public BETA of its new Frame end-user product, that lets anyone quickly and easily move any Windows application into Frame’s secure cloud environment, automatically, with just a few clicks. Develop3D Live attendees will be the first to view the new BETA, which will go to market in Q2 2015.
- It is shortening the platform name from Mainframe2 to Frame, in response to strong demand from end-users in CAD, Design, and AEC and reflective of the much broader audience.
- It has received additional funding from Bain Venture Capital.
- Frame CEO Dr. Nikola Bozinovic will be participating on a panel on the future of CAD in the cloud with Gian Paolo Bassi, CEO of SolidWorks, Jon Hirschtick, founder of Onshape and Mike Payne, CEO of Kenesto at Develop3D Live 2015.

Frame’s new end-user product will have universal appeal since it will allow people to move any Windows application to a Cloud environment instantly. The company has chosen to place its first focus on the CAD, Design and AEC industries because of its unique ability to handle even the most intense graphics tasks easily while preserving high quality.

Key features of Frame include full compatibility with any existing Windows software, the ability to connect to any PDM or cloud storage, and unrivaled graphics performance. Even the most demanding graphics tasks run smoothly from the cloud super-computer powered by NVIDIA GRID graphics.

“Seeing SOLIDWORKS running in a browser was unbelievable,” said Jared Conway, Professional Engineer from Hawk Ridge Systems, the #1 Worldwide SOLIDWORKS reseller. “The cursor response was crisp and assemblies rotated smoothly even with RealView enabled. Overall, the SOLIDWORKS experience on Frame was top notch.”

A limited number of Frame BETA accounts are being made available to the CAD community. People interested in participating can sign up at <http://www.fra.me> or visit Frame at Develop3D Live booths 8 and 9.

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Mentor Graphics Launches Xpedition Package Integrator Flow for IC-Package-Board Design

23 March 2015

Mentor Graphics Corporation today announced its new Xpedition® Package Integrator flow, one of the industry's broadest solution for integrated circuit (IC), package, and printed circuit board (PCB) co-design and optimization. The Package Integrator solution automates planning, assembly and optimization of today's complex multi-die packages. It incorporates a unique virtual die model concept for true IC-to-package co-optimization. In support of early marketing-level studies for a proposed new device, users can now plan, assemble and optimize complex systems with minimal source data. The new Package Integrator flow allows design teams to realize faster and more efficient physical path finding and seamless tool integration for rapid prototyping, right to the production flow.

This solution ensures that ICs, packages and PCBs are optimized with each other to reduce package substrate and PCB costs by efficient layer reduction, optimized interconnect paths, and streamlined/automated control of the design process. The Xpedition Package Integrator product also provides the industry's first formal flow for ball grid array (BGA) ball-map planning and optimization based on an "intelligent pin" concept, defined by user rules. In addition, a groundbreaking multi-mode connectivity management system (incorporating hardware description language (HDL), spreadsheet and graphical schematic) provides cross-domain pin-mapping and system level cross-domain logical verification.

"Companies are recognizing that it will not be possible to design optimal systems in a timely fashion without the ability to co-design the IC, package, and board," said E. Jan Vardaman, president and founder, TechSearch International, Inc. "Incorporating key parameters from thermal and electromagnetic modeling will be critical in meeting performance objectives. Automating this process is essential to meet development and product launch schedules in our fast moving market segments. Mentor's Xpedition Package Integrator tool is a breakthrough in the design process."

Additional features include:

- Cross-domain interconnect visualization in a single view
- Powerful, comprehensive and user-friendly multi-mode physical layout tools with industry leading routing for PCB, MCM, SiP, RF, Hybrid and BGA designs
- Fully automated library development

The Xpedition Package Integrator flow leverages other Mentor Graphics tools such as the HyperLynx® signal and power integrity product, FloTHERM® computational fluid dynamics (CFD) thermal modeling tools, and the Valor® NPI substrate fabrication checking tool. To complete the Mentor Graphics co-design solution, Nimbic was acquired in 2014. The Nimbic technology provides Maxwell-accurate, 3D full-wave electromagnetic (EM) high-performance simulation solutions that accurately calculate complex electromagnetic fields for chip-package-board simulation.

"The Xpedition Package Integrator design flow, especially the unique virtual die model, gives package and board design experts really meaningful guidance and tools for their parts of the system design efforts," said Herb Reiter, president of eda2asic and Director of 3D-IC Programs at Si2. "This flow also allows quick and structured feedback to the IC designers and enables true die-package-board co-design

and optimization towards best possible performance versus power ratios for your next system design."

"Mentor Graphics recognizes the increasing complexity in electrical systems design and manufacturing, particularly for IC, package and board co-design," stated A.J. Incorvaia, vice president and general manager of Mentor Graphics Systems Design Division. "Our new Xpedition Package Integrator flow will enable systems designers to achieve optimum productivity by saving time and costs while improving the overall quality and performance of advanced systems."

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MSC Apex Cheetah Release Transforms Design Analysis

25 March 2015

[MSC Software Corporation](#) today announced a new release of [MSC Apex](#), the company's [award winning](#) next generation Computer Aided Engineering (CAE) platform. The [MSC Apex Cheetah](#) release introduces:

- The third release of [MSC Apex Modeler](#) - A CAE Specific direct modeling and meshing solution that streamlines CAD clean-up, simplification, and meshing workflow.
- The first release of [MSC Apex Structures](#) - An add-on to MSC Apex Modeler which now expands MSC Apex to a fully integrated and generative structural analysis solution.

The new release enhances the engineer's workflow and daily productivity with many innovative modeling and analysis capabilities, and gives more engineers the ability to perform design analysis.

"Cheetah is a milestone release for [MSC Apex](#), now delivering its first solver integrated solution for interactive and incremental structural analysis," said Hugues Jeancolas, MSC Apex Product Manager. "Modeling, validating, solving, and exploring designs has never been this efficient and easy. MSC Apex helps users to crush the amount of time that it normally takes to build and validate models, a task that does not add any value to the design process. This frees our users to focus on delivering not just acceptable designs but ones that are optimal - in an environment that is fun to use."

Key productivity accelerators include:

Geometry clean-up and Meshing

55% of engineers spend more than 40% of their time on geometry clean up and meshing, according to a recent survey conducted with leading manufacturing companies. [MSC Apex Modeler](#) continues to deliver breakthrough capabilities to speed the CAD to mesh process and improve productivity with a new Geometry Checks tool, robustness enhancements to Geometry Cleanup Stitching and Surface Auto extend capabilities, a new user interface for De-featuring, and a new Automated Mesh Improve capability and user defined mesh quality criteria. While the previous release, Black Marlin, delivered on ease-of-use, with these enhancements, MSC Apex Cheetah brings productivity and speed, in particular for mid-surface geometry creation, clean-up and meshing.

Solver Validated Modeling

67% of engineers need 2 to 4 solver runs to obtain a converged solution. MSC Apex Cheetah enhances the simulation workflow by delivering an innovative Analysis Readiness tool that allows the user to validate models before submitting the analysis. The Analysis Readiness tool leverages integrated solver

methods to check on element quality, proper material and section attribution, part connectivity, and proper loads and constraints definitions. The tool is integrated with the MSC Apex generative framework and automatically updates as the user builds the model. This ensures all models created within the application are always solver compliant and run-ready.

Assembly Representations

MSC Apex Cheetah also enhances the simulation workflow to support large assemblies with the introduction of assembly representations, and glue connections. The concept of assembly representations allows the user to manage multiple configured assemblies of parts, and enables a divide and conquer approach to incrementally define, validate, and analyze large, complex assemblies. With Cheetah, users will also now be able to manage, attribute, assemble, and analyze orphan meshes with the support for [MSC Nastran](#) bulk data files (BDF) import.

Generative Linear Structural Analysis

With MSC Apex Cheetah, users can now define scenarios, loads, and boundary conditions, analyze, and post process results for Linear Static and Normal Modes. MSC Apex Structures combines Computational Parts and Assemblies' technology with a generative framework, which enables interactive and incremental analysis. With Computational Parts and Assemblies, MSC Apex is a true parts-based solution, where each part behavioral representation (stiffness, mass, and damping) can be pre-computed and stored independently. This approach is especially efficient when combined with the MSC Apex generative framework, as the solver execution will only re-compute behavioral representations for parts that have changed since the last solver execution. This new solver architecture is especially efficient in the context of trade studies.

MSC Apex was recently awarded NASA Tech Briefs 2014 Product of the Year and Design News Golden Mousetrap Award.

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NCG CAM v14 is Officially Released

23 March 2015

NCG CAM Solutions Ltd, UK officially released [NCG CAM v14](#). This major release includes a number of new features including UV surface machining, the ability to cover pockets, tools to align 3+2 axis, ability to quickly change the background color, enhancements to translucency, 5-axis along curve machining, tool axis alignment curves for 5-axis along curve strategy as well as many enhancements including improved automation of the drilling in macros, the ability to copy and paste all of the strategy parameters and the ability to do rest finishing using a toroidal reference cutter.

A demonstration version of NCG CAM v14 is now available to download:

<http://www.ncgcam.com/demorequest.html>.

In NCG CAM v14, UV surface machining is a new feature. This new feature will allow the user to select either a single surface, or a series of appropriate adjacent surfaces, and then to generate machining passes using the selected surfaces and the underlying UV direction parameterization. This can be done by either a given number of passes, or a step-over distance.

This is not totally automated at this stage and requires the user to investigate the UV surface parameters with a view to swapping them to align them to a common machining direction. The UV directions are

indicated by arrows.

New functionality to cover pockets is now available to allow the user to create planar patches from curves, machining passes, or remaining passes.

Creating planar patches from the highest inaccessible passes in a roughing toolpath will cover and protect pockets of remaining stock, preventing smaller cutters falling into un-machined regions.

New tools are now available to help the user to align 3+2 Axis boundary planes.

Boundary alignment is a particular problem when there is not a planar surface with a suitable normal to orientate from.

The user is now able to quickly change the 'Background Color' by either using the drop-down menu, or clicking the 'Right' button on the mouse. Previously 6 mouse clicks were needed to change it, via the Tools Options page.

With the surfaces displayed in Shaded mode, it is now possible to change the translucency of all surfaces in a single operation. One use for this is to enable the user to see the holes inside the part when drilling.

A new feature has been added to the 5-axis module, 5-axis along curve machining. This will allow the cutter to follow a given curve, and the tool axis will remain normal to the underlying surfaces. One example of the use of this feature is to cut windows or trim profiles and edges into components made of composite materials.

Tool axis alignment curves for 5-axis along curve strategy is a new feature that will allow the cutter to follow a curve, then a second folder containing additional direction vectors will determine the tool axis. When machining, the tool axis will gradually tilt through these vectors, as it follows the curve.

Many other enhancements have also been added in NCG CAM v14, including improved automation to the drilling macros to make it possible to setup Macros to define drilling canned cycles and make them 'Data Independent' in the same way that milling operations can be setup as Boundary independent by selecting new Boundaries. Also the ability to Copy all the strategy parameters from the dialog page to the copy buffer, which will allow the user to be able to paste the copied parameters into a similar dialog in another NCG CAM session, reducing programming time and errors.

In NCG CAM v13 it was possible to machine material that has not been removed by a previous cutter, for example, from the internal corners of the job using Rest Finishing passes. However, the previous, or reference cutter, must be a ball nose type. This enhancement in NCG CAM v14 now allows the reference cutter to be of a toroidal specification.

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Open Design Alliance Updates Teigha® for Android 5

24 March 2015

Open Design Alliance (ODA) announced support for the Android 5 mobile operating system in the latest release of Teigha, the ODA's software development platform for engineering applications.

Built against the latest Android NDK 10, the new release is designed for ODA members developing Android applications on Teigha, a cross platform solution. Android NDK, a companion tool to Android SDK, allows developers to build the performance-critical portions of an application in native code.

"Our members are using Teigha for a wide variety of Android applications including viewers, utilities,

and full CAD systems,” commented Neil Peterson, ODA President. “With our support for Android 5, ODA is keeping pace with the latest improvements to the Android platform.”

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PARTcommunity 3.3 Offers Even More Convenience

26 March 2015

CADENAS presents the newest version 3.3 of its 3D CAD download portal [PARTcommunity](#). New features, like a faster search for 3D CAD models or the option to place several components in the shopping cart at the same time, significantly increasing the operating ease for the user. Besides an improvement of search engines, data security is also further increased: passwords of new PARTcommunity users now have to comply with higher minimum requirements.

Get your desired CAD model even easier

One of the essential improvements of the [PARTcommunity Version 3.3](#) are the revised search features. In the first step of the search, only the 20 most relevant search results are displayed. This improves the required time for a 3D CAD model search decisively, so that the results are listed within one to two seconds. If further search results are desired, they can be displayed afterwards by clicking the button “Show more results“.

Also registering for the 3D CAD download portal of CADENAS was simplified. By means of an auto completion of the address data, the users are supported in indicating their correct address. Most of the time it is sufficient to select the country and enter the street. Afterwards the users are given different address proposals of various cities.

Making the ordering of components easy

As of now it is even easier to order components via the PARTcommunity, since several parts can be added to the shopping cart at the same time. Also the subsequent RFP can now be conducted at the same time for several parts. This means a significantly reduced effort for both the customer and the manufacturer.

Price inquiries for products can now be made in the respective currency of the customer or prospective customer. In doing so the information of the manufacturers’ external web services are taken over. This way prices can contain information about discounts, transport and packaging costs of the respective manufacturer. Afterwards downloading the offer and order as PDF is possible.

Innovations for PARTcommunity embedded

Since 2013, a 3D CAD download portal can be seamlessly integrated into the website of a component manufacturer due to the [PARTcommunity embedded technology](#). With the new version there are also new features available for the PARTcommunity embedded portals: generating PDF data sheets is now possible with an individual button in the menu. Moreover RFPs can now be started. The update to the new version allows the users to generate a preview without prior login, provided that the component manufacturer wants to activate this feature.

Vertical market places - find manufacturers even easier

The numerous vertical market places are the ideal multipliers for the manufacturers’ Electronic Product Catalogs. With version 3.3 the new feature “classification according to standards“ is available on these 70 online market places. Users can for instance select any DIN standard and afterwards get a list of all

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manufacturers offering a component in this standard. Furthermore a new catalog filter is introduced into the vertical market places. With these manufacturers parts can be found even better.

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Saffron Launches SaffronStreamline™, a Cognitive Analytics Solution to Help Manufacturers Improve Lifecycle Management of Embedded Software in Smart Products

26 March 2015

[Saffron](#) today announced the availability of SaffronStreamline, a product lifecycle intelligence solution that provides end-to-end knowledge about issues and defects in a product's lifecycle, helping manufacturers shorten time to market and manage potential risks. The rapid growth of connected devices, machines and software makes this capability an urgent business requirement.

SaffronStreamline's Product Lifecycle Intelligence layer sits above a customer's existing Product Lifecycle Management (PLM) and Application Lifecycle Management (ALM) systems. SaffronStreamline unifies multi-sourced data with enterprise data into a single layer of intelligence that enables organizations to share knowledge from one to many experts across their ecosystems. Customers solve problems quickly and shorten time to market via access to information about multi-discipline issues, to expertise and to the shared causes of problems.

"A new class of software has emerged from research labs and is increasingly embedded in our smartphones, tablets, laptops, Web sites and even enterprise systems. These cognitive systems are disrupting the world of technology and are causing significant changes, including augmenting and improving knowledge workers' activities, collaboration and productivity," said Dave Schubmehl, research director for IDC's content analytics, discovery and cognitive systems research.

"SaffronStreamline leverages this technology to help organizations deliver quality products to market and respond quickly to issues and defects. With the proliferation of embedded software in products of all types, cognitive systems such as SaffronStreamline will play an important role in Product Lifecycle Management and Quality Assurance."

Without such cognitive systems, manufacturers rely on traditional PLM and ALM systems, which make it difficult for them to learn from current and past issues or identify the experts who have experience resolving specific issues. This in turn can lead to poor-quality software outcomes, which exposes companies to two types of threats: the potential risk of problems that could lead to development, liability and warranty costs, and the certain cost of diverting resources from innovation to fixing software. With fewer resources available for innovation, manufacturers find it hard to gain and keep competitive advantage.

Smart Products Come from Smart Processes

"With the rapid growth of smart products containing embedded software, more manufacturers are becoming *de facto* software companies, even though software management is not their traditional area of expertise," said Gayle Sheppard, CEO of Saffron. "SaffronStreamline helps customers resolve issues that arise from hardware, software or the fusion of the two by leveraging all relevant knowledge across disciplines and the enterprise. Now engineers can quickly determine duplicates or similar issues from the past and present and also find experts within their companies who share expertise in similar issues, skills and interests. Management can quickly assess where risks exist across the product lifecycle and rank priorities for resource allocation. SaffronStreamline delivers manufacturers the product lifecycle

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intelligence they need to swiftly identify and resolve quality and safety issues."

The unspoken cost of software development, issue resolution and debugging is a productivity sink for engineers and developers:

- They lose [50 percent of development time](#) to these problems
- [40 percent of issues/bugs](#) are duplicates in kind or occurrence
- Resolving issues takes an [average of 6.9 days](#)

By accelerating resolution, SaffronStreamline helps manufacturers and service providers:

- Bring new products to market faster.
- Increase customer satisfaction with faster fixes, new features and better quality.
- Protect profit margins from warranty and service demands.
- Capture competitive advantage by focusing resources on innovation.
- Develop and leverage company-wide expertise in software management.

SaffronStreamline Product Details

SaffronStreamline helps manufacturers integrate application lifecycle management into their product lifecycles by:

1. Learning from disconnected enterprise-system data sources such as PLM, ALM, Testing and CRM.
2. Finding similar issues, duplicates and shared causes for engineering resolution automatically.
3. Classifying business risk of issues and defects such as safety, customer experience, reliability, performance and more.
4. Identifying experts who work on similar issues and have similar skill sets for collaboration.
5. Unifying issues expertise, gathered from external sources such as Stack Overflow and other data sources selected by the customer, with internal enterprise data.

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Siemens and thinkstep Launch New Material Management Software

24 March 2015

Siemens and thinkstep (formerly PE International) today announced a new integrated material management software solution to manage the material lifecycle and streamline material driven product design. The new solution, developed by thinkstep and Siemens' product lifecycle management (PLM) software business, will help manufacturers worldwide improve product performance and reliability by connecting design, engineering, analysis, compliance and manufacturing to a single source of material information. The new offering, which is part of Siemens' Teamcenter® portfolio, will help reduce errors, rework and recalls that result from the use of inaccurate material data. It will also assist in the re-use of market tested materials for new products, which is critical in a wide variety of industries. Siemens and thinkstep expanded their existing partnership agreement to develop this new solution.

"Selecting the right materials is critical in order to achieve maximum safety, performance and reliability in our business," said John Probst, Technical Director, Chip Ganassi Racing with Felix Sabates. "The

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Teamcenter integrated material management solution opens up new horizons for us in agile materials management that spans design, engineering, simulation and manufacturing processes. In the racing world, where every second counts, we need solutions like this that enable us to create more innovative designs to give our team a competitive advantage.”

“Through our expanded relationship with thinkstep, we’re delivering a competitive advantage to all of our customers through true material management intelligence,” said Eric Sterling, senior vice president, Lifecycle Collaboration Software, Siemens PLM Software. “Products from virtually every industry can fail, and often times the failure results from the inconsistent use of material information. The new Teamcenter integrated material management solution provides a more holistic view of material data for use in all phases of the product lifecycle to help improve quality and reduce development cost. The new solution gives manufacturers the right information at the right time so they can react quickly and realize innovation.”

Material property management systems have evolved significantly to keep pace with the growing demand to capture, store and interrogate material test data. However, these massive volumes of data cannot be considered material intelligence unless the lifecycle of the material data is intrinsically linked with the lifecycle of the product. Teamcenter integrated material management provides this missing link between material data and true product intelligence. Establishing and maintaining integration between the materials considered for use in a product and the product’s bill-of-materials (BOM) is crucial to delivering successful, innovative products. The Teamcenter integrated material management solution enables the active management of materials throughout the product lifecycle, from design to production to retirement.

“We are thrilled to work with Siemens to help our customers create innovative new products,” said Christoph Wilfert, CEO, thinkstep. “Integrated material management significantly improves the product development cycle. The solution tracks, measures and manages key materials and substances, reducing rework and mitigating the risk of recalls and non-compliance.”

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The CAD Content on the TracePartsOnline.net Platform Can Now be Directly Accessed from GstarCAD 2015

25 March 2015

TraceParts and Gstarsoft, have concluded a partnership agreement for publishing CAD data.

With over 400,000 users in the world, Gstarsoft recently launched the new 2015 version of its GstarCAD software, with new file sharing features (cloud) and direct access to the CAD content of the [TracePartsOnline.net](#) library.

This access to TraceParts’ CAD data will enable designers working in the fields of architecture, mechanics, manufacturing or electrical and HVAC systems to download 2D and 3D models directly from the GstarCAD 2015 software interface.

Offering a simple user interface, Gstarsoft wanted to incorporate innovative solutions in its CAD software, giving design professionals the opportunity to integrate hundreds of millions of CAD models from certified industrial component suppliers in their projects.

When choosing its partner, GstarCAD naturally turned to a leading specialist; since 2001, TraceParts has

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been providing innovative services for publishing and downloading 3D CAD models, specially designed for industrial component suppliers and CAD software publishers. This new partnership will enable TraceParts to consolidate its technical-data and 3D-model publishing network, which already boasts 9.2 million CAD users around the world.

In particular, this close collaboration gives TraceParts' customers, manufacturers, industrial suppliers and distributors, present on TracePartsOnline.net to significantly expand the publishing scope of their 3D catalogues to GstarCAD's community of CAD users.

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TurboSite v4.1 Adds Industry's First Editable PDF Forms Frontend for Mobile Field Reporting

19 March 2015

IMSI®/Design announced TurboSite® Pro v4.1, TurboSite Plus v4.1, and TurboSite Standard v4.1, the award-winning apps for field reporting.

Topping the list of new features is the industry's first editable PDF forms-driven frontend for mobile site evaluations.

"For the first time, a company doing a site evaluation can drive the process visually *or* use a more traditional 'clipboard & forms' approach," stated Royal Farros, CEO of IMSI/Design. "Not only can any multipage PDF form be viewed, but TurboSite uniquely supports text entry and checkbox editing on those forms, too. This is a big win for companies since the majority of site evaluations are still forms based. It's also another way TurboSite is fundamentally different from all other viewing & markup apps in mobile."

New features in TurboSite v4.1 include:

- Editable PDF Form Support: True Textbox and Checkbox editing is now supported in multipage PDF Form documents
- Cloud Storage Syncing: Open/Save directly to Box, Dropbox, WebDav, and FTP servers; Displays synch status
- PDF Reporting Enhancements: Now customize PDF reports with company logo, header, and company information without template editing
- Easy GeoMark Search Filters: Predefined search filters display and report items based on Title, Notes, Punch Key, Status, Assigned, Location, Deadline, Video, Audio, and Photo Names for easy operation
- GeoMark Recent Search: Recent search queries are saved for quick access
- Photo Locator Map: When taking or importing pictures, geolocation text is automatically created and hyperlinked to available maps of the area
- Push Notifications: Stay up-to-date with the latest updates and critical product communication
- iOS 8 updates
- ... and more

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Yunique Solutions Launches Test Drive for ‘YuniquePLM In The Cloud’

26 March 2015

Yunique Solutions has announced a test drive launch of [YuniquePLM™ In The Cloud](#), a fashion-specific PLM solution available on Amazon Web Services (AWS). In a matter of minutes, companies can now test drive YuniquePLM In The Cloud, and experience first-hand how it offers the functionality of a best-in-class PLM solution, combined with the benefits of cloud computing.

With YuniquePLM In The Cloud, businesses of all sizes can deliver their products to market faster than ever before. Leveraging cloud infrastructure, resources can be scaled on demand and large upfront investments in hardware and maintenance are no longer required.

“YuniquePLM In The Cloud provides the added benefits of flexibility and cost-effectiveness,” said Bill Brewster, vice president and general manager of Yunique Solutions. “Our cloud solution is designed to enable companies to get up and running in as little time as possible to streamline their business processes. While YuniquePLM In The Cloud is currently available, the new test drive program allows fashion companies the opportunity to give the solution a try very quickly and easily.”

Benefits of YuniquePLM In The Cloud:

Fast: Enables rapid implementation and adoption to accelerate time to value for the PLM investment.

Cost effective: Allows for reduced expenditure on hardware and system management costs.

High performance: Provides easy access and high-speed data transmission from any location or device.

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