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CIMdata News

CIMdata Announces Date and Location for the Next North American CIMdata PLM Certificate Program

27 June 2012

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) management consulting and research firm announces that the next North American based CIMdata PLM Certificate Program will be held in the Dallas/Fort Worth area from September 17-21, 2012. The [CIMdata PLM Certificate Program](#) is the flagship offering of *CIMdata PLM Leadership* — the PLM industry’s most comprehensive non-biased education and training offering available for today’s PLM professionals.

The CIMdata PLM Certificate Program prepares PLM professionals at several levels to successfully address the challenges inherent in PLM implementations. This assessment-based certificate program includes an intimate classroom experience, individual and team-based exercises, and individual evaluations of achievement. Additionally, the program provides participants with intensive and extensive exposure to a team of CIMdata experts. Upon successful completion of the program, each participant receives a CIMdata PLM Certificate and becomes a member of CIMdata’s global *PLM Leadership* community.

According to James McKinney, CIMdata’s PLM Leadership Practice Manager, “Our 2012 PLM Certificate Program schedule addresses the needs of PLM professionals throughout Europe and North America. We are excited to bring the program to the Dallas/Fort Worth metro area.”

PLM Certificate Program participants can register online for either the 3-day or 5-day program. This

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certificate program is available to industrial companies who are considering or implementing PLM, and to PLM technology and service providers. The CIMdata PLM Certificate Program is built on CIMdata's more than 28 years of extensive worldwide experience guiding industrial companies in successfully defining and implementing best-in-class PLM strategies and tactics. For more information about the CIMdata PLM Certificate Program or to register visit CIMdata's website at http://www.cimdata.com/services/education/plm_certificate.html.

About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic management consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding in 1983, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM enabling technologies.

CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia Pacific. To learn more about CIMdata's services, visit our website at www.CIMdata.com or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957.

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CIMdata Publishes "CAD Selection Considerations: Design Changes"

28 June 2012

CIMdata, Inc., the leading global PLM management consulting and research firm announces a new paper advising CAD users on the importance of tools that allow rapid design model changes. Innovation in product development relies heavily on the fundamental engineering cycle of modify and improve, so most new products are built from changes made to existing products. The modeling tools most beneficial to product designers must align to that cycle and should contain a wealth of rapid and flexible editing methods. When selecting a modeling suite, prospective users must assess their past New Product Introduction experiences and compile a list of their most important and impactful needs.

This paper, the first in a series describing CAD selection considerations, identifies and discusses a number of functional capabilities for changing geometric models that have proven to be of critical use for leading edge product designers. Users of parametric modeling technologies especially need a set of easy-to-use geometry editing tools that allow them to make model changes with the same speed and flexibility associated with dedicated direct modeling approaches. Yet changes must be made without the concern of damaging built in design intent. This paper cites a number of functional capabilities and some of the significant reasons design engineers should look for flexibility in the design editing

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functions of their modeling tools. The paper also highlights a number of key technology considerations that potential buyers should require from the tools they select.

The “CAD Selection Considerations: Design Changes” paper is available to be freely downloaded from CIMdata’s [Publications web page](#).

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CIMdata Releases its 2012 China PLM Report

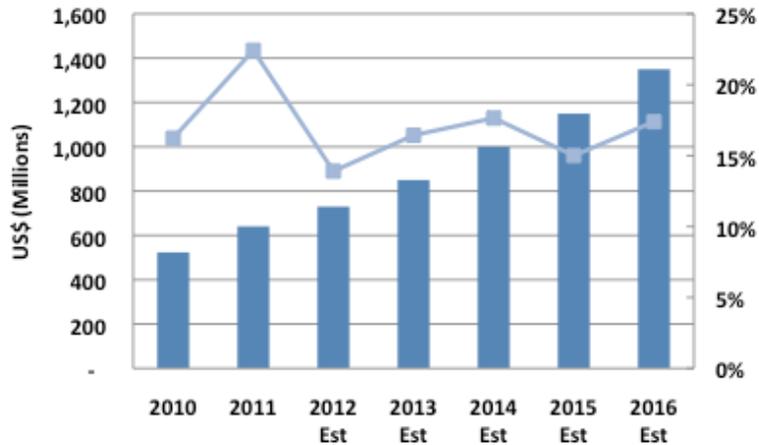
26 June 2012

CIMdata, Inc., the leading global PLM management consulting and research firm announces the availability of its 2012 China Product Lifecycle Management (PLM) Market Analysis Report. This report provides detailed information and in-depth analysis on the People’s Republic of China’s (“China”) rapidly-evolving Mainstream PLM market. The report discusses the major China PLM trends and issues, PLM purchase investments in software and services, PLM adoption in various industry sectors, and market growth forecasts that pertain to this important and quickly expanding economic region. This report also provides insight into PLM market dynamics within the region and the revenue performance of the leading PLM solution providers operating within it, both China-based and international PLM solution providers based elsewhere. This report is a joint collaborative effort of CIMdata and China-based e-works Manufacturing Information Technology Co., Ltd. (<http://www.eworksglobal.com/> in English and <http://www.e-works.net.cn> in Chinese).

Stan Przybylinski, CIMdata Director of Research said, “Once again the global market had a strong year and China proved even stronger. In 2011, the Chinese Mainstream PLM market grew 22.3% to

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US\$640.9 million which is about 10% higher than the growth rate of the global mainstream PLM market, and in 2012 the growth rate of the Chinese Mainstream PLM market is forecasted to be 13.9%.” Chinese industries that are heavily investing in PLM include aerospace, automotive, high-tech, and mechanical machinery. The following chart illustrates the growth and size of the China PLM market for the past 2 years and projects growth through 2016.



Global PLM solution providers continue to invest in China and are expanding their partner networks and growing their customer bases. The leading international PLM providers include Dassault Systèmes, PTC, and Siemens PLM Software, and these three firms accounted for nearly 54% of China-based mainstream PLM revenues in 2011. “In the last year, several China-based ERP solution providers began offering PLM solutions, which illustrates how attractive this space has become,” stated Peter Bilello, CIMdata President. “We had strong attendance at our first China PLM Market and Industry and Forum, from both local providers and mainstream international providers. In fact, in Shanghai we had the most fervent discussion of systems engineering, a very advanced PLM topic, of any of our four sessions around the world. Their end users see the importance of this topic to developing complex products, and the China-based PLM solution providers want to add capabilities to support them,” he added.

This report reflects the trend that Chinese manufacturers are paying more and more attention to product innovation and are fast improving their own R&D capabilities and processes by deploying PLM, not only in traditional discrete industries, but also in life sciences, food & beverage, and several emerging vertical markets.

CIMdata designed this report to be a valuable source of information to support the business and market planning processes of PLM solution providers that are targeting China, as well as industrial companies within China who would like to understand the PLM competitive landscape. Further details including pricing information about the report are available on CIMdata’s website for [publications](#).

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About e-works

e-works Manufacturing Information Technology (China) Co., Ltd., is one of the best known IT research, training and consulting companies serving Chinese manufacturing enterprises. It hosts the well regarded www.e-works.net.cn portal, which records over 200,000 page hits per day and has more than 600,000 subscribers, providing Chinese manufacturing companies information and opinions about CAD/CAM, CAE, PLM, ERP, CRM, SCM and other IT applications of interest to Chinese manufacturing enterprises.

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Social Industry Experience—Driving Fundamental Changes at Dassault Systèmes: CIMdata Commentary

26 June 2012

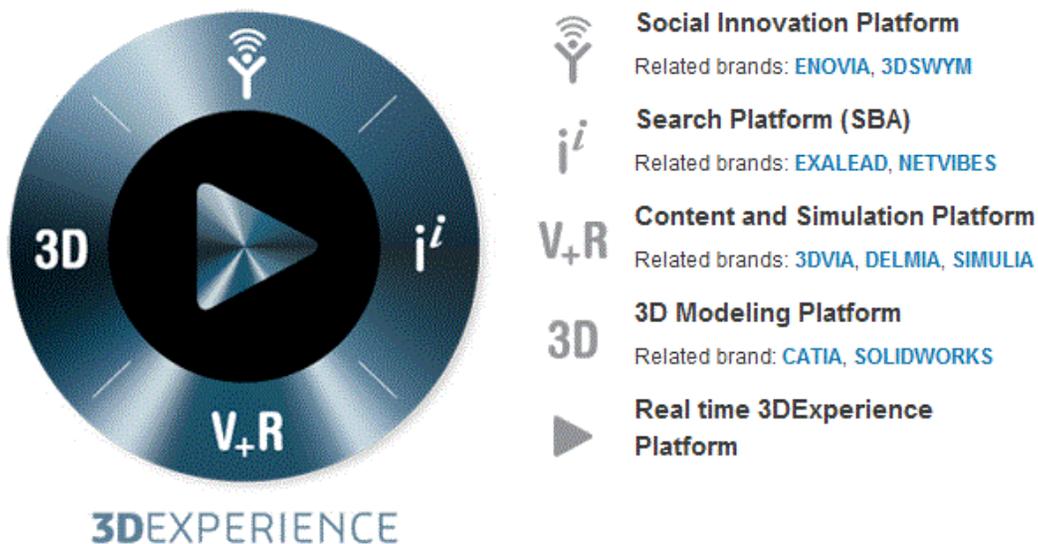
On June 5 and 6 Dassault Systèmes held their annual Industry Analyst event at their Velizy headquarters just outside of Paris. Day one focused on Dassault Systèmes—the company, and day two covered eight of their twelve targeted industrial vertical markets. This session provided some needed clarity on their recent changes in messaging, brand focus, and acquisitions. The attendee list included the usual industry analysts, but there have been some changes over the years as Dassault Systèmes has expanded their vision. This is reflected in how Dassault Systèmes defines the relevant analyst community, and there were some new faces in the crowd, including analysts covering virtual worlds, serious games, and financial services.

Day one started with a passionate presentation by Dassault Systèmes President and CEO Bernard Charlès. Dassault Systèmes tends to refer to their company's evolution as a series of historical epochs around their key offerings: DS1 for 3D modeling, DS2 for digital mockup (DMU), and DS3 for product lifecycle management (PLM). The company is now in DS4 which, according to Mr. Charles, is the “post PLM” era, focused on “3DExperience” powered by the V6 platform. The next step in the journey is to

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move from a product centric view to one focused on broader business value. While a business value theme has been adopted in the marketing and packaging of other PLM competitors over the last few years, Dassault Systèmes is taking a different approach. Their business and offerings are evolving to deliver a set of “social industry experiences” that Mr. Charles stated will be substantively different from the industry-focused solutions available in the PLM market today. This new approach has two iconic messages: “If We” and the compass shown below. “If We” provides a framework for industry campaigns that fit with the new company tagline “If we ask the right questions, we can change the world.” A bold question was asked in a recent project seeking to determine if it was feasible to tow icebergs from the poles to places in need of fresh water. This video has been used at several recent Dassault Systèmes events, and illustrates how their solution offerings were used in combination to test this hypothesis. Given the positive result from the virtual world, their partner is seeking funding in the real world to answer this question by actually moving an iceberg to a country in need.

The Compass (below) is adapted from the user interface of their V6 platform, and is now used to position the Dassault Systèmes brands and how they combine to deliver 3DEXperiences. 3D (in the West position) is just what one would imagine—the product modeling capabilities from CATIA and SolidWorks (which recent announcements have shown are getting closer and closer together under the covers). South is the position of V+R, representing the content sharing, reuse, and simulation capabilities from their DELMIA, SIMULIA, and 3DVIA brands. In the East, we find “information intelligence,” a concept that uses words similar to the recent messaging from Siemens PLM Software, but means something quite different. For Dassault Systèmes information intelligence takes advantage of the search and semantic power of Exalead in combination with the portal technology from their recent Netvibes acquisition to provide information to enhance business operations. At North we find their platforms for social innovation, ENOVIA and 3DSWYM. Finally, leveraging all of this power and knowledge, users will, to paraphrase Aerosmith, just press play in the center of the compass to start their 3DEXperiences.



The Compass Leads the Way for Dassault Systèmes in DS4

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As we saw during day two, while the experiences all have 3D in their names, 3D may or may not be essential to delivering social industry experiences. For example, Mr. Jean Colombel, their VP for life sciences, described seven industry experiences at various levels of completion: (1) virtual medical device program; (2) virtual design; (3) efficient and safe design (virtual prototypes); (4) virtual manufacturing; (5) device in operation; (6) social post-market surveillance; and (7) sustainable device and operation (patient and environment care). The same was true of the other industries reviewed on day two.

According to Ms. Monica Menghini, the EVP of Industry, Marketing Strategy and Corporate Communications, Dassault Systèmes has created a 3-year roadmap of experiences to build for each of their eleven targeted industries. (Of course, this number is now twelve with the recent Gemcom acquisition, which has been rechristened GEOVIA in the Dassault Systèmes style, and targets geophysical and natural resource industries.) There was also discussion of how each industry group is essentially a separate strategic business unit, with their own sales, marketing, solutions, and support functions. The traditional industries such as automotive and aerospace already have large teams, and the other industries are ramping up, often finding people within the Dassault Systèmes organization with the right skills for the industry teams. Based on the day two presentations, they have also made some good hires for industry leads, bringing in people with significant business experience in those industries. While all of the major PLM players have some form of industry-focused structure for their solutions and businesses, this step by Dassault Systèmes goes beyond what their competitors currently have proposed.

Why is Dassault Systèmes doing this? According to both Mr. Charles and Ms. Menghini, the world has changed. Issues like mobility, social media, and cloud computing, while challenging, have put power in the hands of the consumer over the last decade. Social is the new way of doing business, and consumerization of IT is inevitable. They claim that “consumers buy experiences” and they plan to build a set of solutions for vertical markets that offer unique value and are not just the result of conducting gap analyses and building features and functions directed at specific industries. They plan to build a set of social industry experiences, powered by their V6 portfolio and other offerings, that will allow their customers to “start anywhere, use any apps, build IP as they go, and connect the dots without heavy IT intervention.” Ms. Menghini claimed that ERP and the right 3DEXperiences were all that you need to run your business.

Of course, they are also doing this to grow their business. While the PLM market has seen tremendous growth over the last several years based on our PLM market research, Dassault Systèmes is also trying to grow their addressable market. The remarks of Mr. Thibault DeTersant, their EVP and CFO, focused on convincing the audience that not only do these moves double their addressable market size from \$16 billion to \$32 billion, but that they are readily achievable. His arguments had some merit, but Dassault Systèmes is only beginning this journey and it will take some time to see if customers resonate with this approach and vote with their purchasing dollars (or euros or yen or...). This vision does seem broader in some respects in comparison to that of other PLM solution providers, and Dassault Systèmes does have a solid portfolio of offerings to help drive this change. (The annuity provided by their CATIA installed base has provided much of the \$2 billion Mr. Charles claimed that Dassault Systèmes has spent on V6 and acquisitions to get to this point.) They are also targeting some industries, like financial services and mining, which are out of the mainstream of PLM (but addressed by some of their competitors, such as Oracle, SAP and PTC, in the case of financial services). Managing this market breadth is an issue in

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itself. Dassault Systèmes cannot “focus” on twelve industries, as they claim, but they can emphasize that many and takes steps to compete effectively, with the right teams and processes in place.

The bigger issues facing Dassault Systèmes and this move are about business models and financial returns. Historically, CATIA and their other long-lived brands were offered using a particular business model and delivered significant operating margins. Services, while important, were limited to a certain percentage of overall revenue (now just under 10% of Dassault Systèmes total revenue). Social industry experiences may or may not fit this mold. Some elements that they contemplate delivering to consumers may yield little direct revenue, but could help Dassault Systèmes’ customers achieve a more rapid time to value. That is indeed the vision, but things like cloud and mobile are impacting margins across the IT space. In addition, many of these 3DEXperiences will require a significant service component, at least for the near to medium term, because companies do not yet understand how to use these techniques. Delivering high margin services that help create and capture IP is difficult to achieve, but not impossible. But this is another change to recent business practices that will have to be managed. And it will have to be managed throughout their partner ecosystems; with partners who are already burdened with sales enablement challenges.

In conclusion, at their annual industry analyst event Dassault Systèmes described a powerful, expansive vision that is being enabled with a substantial on-going organization and technology development cycle. This vision has become clearer over the last year, with an evolution of their definition of DS4 and how they will reorganize to achieve it. For over a decade, CIMdata’s world-class PLM model has called for more business solutions as part of the offering mix, and the Dassault Systèmes’ approach is a strong move in that direction, one that CIMdata applauds. Current Dassault Systèmes’ customers should take the time to understand this new direction to best assess its benefits for their businesses. Prospective customers should ensure that the 3DEXperiences they are offered provide not only the new social industry capabilities on which they were built, but also the capabilities they need to manage and execute their product development processes day-to-day. Of course, this new journey is just beginning, and many questions remain as discussed throughout this commentary. It is not clear if the analysts in attendance provided the necessary “If We” questions to challenge all of Dassault Systèmes’ assumptions, but clearly 3DEXperiences are a new approach to be reckoned with in the PLM market. Only time will tell if they do indeed signal a beginning to the post-PLM era.

About CIMdata

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CIMdata PLM Industry Summary

Special CIMdata PLM Late-Breaking News Announcement

29 June 2012

The week of July 4th is typically a slow news week in the PLM industry. Given the lack of news, CIMdata may or may not publish the Late Breaking News on any given day that week. We will not be publishing on Wednesday, July 4th, in observance of Independence Day. We apologize in advance for any problems this may cause, but be assured that ALL of the news available that week will be published. The weekly CIMdata PLM Industry Summary will be published on Friday, July 6th, as usual.

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Company News

AVEVA Software to be Implemented on a Research Project at the University of Alberta

28 June 2012

AVEVA today announced it has reached an agreement with the University of Alberta, Hole School of Construction to supply multiple licenses of AVEVA PDMS and AVEVA NET, for the university's research project on construction visualization. Dr. Simaan AbouRizk and his team of researchers will use the AVEVA software as part of their charter to develop innovative information technologies for modeling, analyzing and optimizing construction operations.

“With the objective of improving construction processes and enhancing decision making, we are using the AVEVA technology to simplify our simulation modeling tools and integrate them with other construction solutions”, said Dr. Simaan AbouRizk, Professor, Construction Engineering and Management, University of Alberta. “The overall goal is to develop a better framework for the planning and control of construction projects through advancements in simulation. We are very pleased to work with AVEVA on this vital piece of research. Our students can now experience working with industry leading software while developing their own software models.”

“AVEVA is proud to have been selected for the research efforts of Dr. Simaan AbouRizk and his team at the University of Alberta”, added William Muldoon, Executive Vice President – North America,

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AVEVA. “With the help of AVEVA PDMS, the leading 3D plant design system, we hope to see Dr. AbouRizk’s vision become a reality. With our software the computer simulations can now be seen in a highly visual environment and AVEVA NET will play a key diagnostic and analytical role in solving complex operational problems.”

The AVEVA Academic Initiative benefits educational institutions, their students, employers, and the global engineering economy. AVEVA’s educational partners range from local vocational training centres to the world’s most prestigious postgraduate universities. Common to all is a dedication to developing engineering skills that can be applied directly in the plant or maritime industries. To learn more visit www.aveva.com/academic

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Centric Software Partners with vrSoftware, Offers vrMockshop

27 June 2012

Apparel and other customers of Centric Software, Inc. who sell through retail shops will now be able to extend the benefits of their PLM systems even further, reaching to the retail shop floor, thanks to a new partnership between Centric and vrSoftware.

As a [vrSoftware](#) solution provider partner, Centric—provider of product lifecycle management (PLM) software for apparel, luxury goods and consumer goods companies—will be able to offer its customers vrSoftware’s [vrMockshop](#). The virtual reality tool helps brands and retailers build fully merchandised, interactive 3-D virtual stores of any size, and helps them design shop floor layouts and planograms from merchandising plans and style images captured in Centric 8 PLM.

vrMockshop quickly and easily integrates with the Centric 8 PLM system, according to Chris Groves, Centric CEO. “Just as our ground-breaking mobile apps extended the benefits of PLM further out in the organization to provide accurate product information to marketing and sales teams, the Centric 8-vrMockshop integration extends the power of PLM software to retail planning teams.”

Extending the “single version of the truth”

With the Centric 8 PLM system and vrMockshop virtual reality software working together to extend the “single version of the truth” for which PLM is known, changes within Centric 8 PLM system ripple instantly throughout vrMockshop. Merchandisers making retail shop plans for merchandising the latest products and collections can prepare retail displays with access to the most up-to-date information about the products.

“Planners can incorporate the latest changes in product design, material or color, revisions in seasonal colors, and even last-minute cancellations to make the best possible use of retail space for maximum revenue and customer satisfaction impact,” says Groves. When retail planners work with this kind of up-to-date information, he says, the potential impact on revenue optimization is significant.

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With vrMockshop's interactive virtual environment, merchandisers can experiment, adapt, and create optimal store layouts. By incorporating retail planning into the product's lifecycle, retailers can visualize key areas of the PLM process, from collection creation to the finished-product look in a fully merchandised store – all before designs even reach sample development or full scale production. The result is the ability to view the next season's collection through the eyes of an in-store customer, while still reviewing samples and planning development.

“As we invest in finding the right partners around the world, we believe that the partnership with Centric is ideal,” says Colin Liversedge, CEO of vrSoftware. “Centric's experience and reputation in PLM for the apparel and other industries that focus on retail sales is a perfect fit, allowing vrSoftware to equip more fashion brands and retailers with the latest in visual merchandising and planning technology.”

Ultimately, explains Groves, apparel companies will realize improved retail sales by using visual mockups, a reduction in labor costs and greater control over branding. “The ability of users to see and provide input in interactive versions of stores affords greater collaboration, another hallmark of PLM,” Groves adds.

vrSoftware

vrSoftware provides visual merchandising, planning and retail execution software solutions for the fashion retail industry. The company's well-known vrMockshop is a virtual reality tool that helps brands and retailers build fully merchandised, interactive 3-D virtual stores of any size, and design shop floor layouts. Users can simply drag and drop virtual fixtures, garments and graphics, and can obtain detailed information on metrics including linear space and stock values. vrMockshop automatically generates stock and fixture schedules, space details and planograms to aid in planning and communication.

Based in Ripon, England, vrSoftware's customer base of leading global brands includes Levi Strauss, Tommy Hilfiger, Hugo Boss, Macy's, Adidas and other major international sportswear brands. The company has more than 7,500 users in 32 countries.

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Comet Solutions® Partners With JSOL Corporation for Japan Market Entry

27 June 2012

[Comet Solutions](#), Inc. today announced a partnership agreement with the [JSOL Corporation](#) through which JSOL's Engineering Technology Division will sell and support the full suite of Comet products in Japan. With headquarters in Tokyo, Japan, and 40 years in the Japan market, JSOL provides IT solutions tailored to customer needs in every area, from IT consulting to system implementation and operation, and is the top distributor in Japan for the LS-DYNA® product. JSOL has a diverse customer base in most major manufacturing industries, with concentration in automotive, heavy industry, machinery, and consumer electronics.

CIMdata PLM Industry Summary

JSOL first introduced Comet to the Japanese market at the June Design Engineering & Manufacturing Solutions Expo (DMS), Japan's largest exhibition gathering of IT solutions, such as CAD, CAE, ERP, and production systems. As part of the partnership, Comet will support integration with the LS-DYNA product developed by Livermore Software Technology Corporation. JSOL also will take advantage of Comet's tool-open and extensible technology to offer its customers solutions that integrate other JSOL and leading commercial CAE tools. JSOL will introduce Comet directly to its customer base at the LS-DYNA and JSTAMP Forum (a JSOL user conference which attracts hundreds of attendees), scheduled for July 18/19, 2012, in Nagoya, Japan.

Expanding the availability of its software through international partners is a stated growth strategy of Comet Solutions. The CAE market in Japan is forecasted to grow at a CAGR of 11 percent through 2014 and a major trend is increased integration of CAE and CAD, making Japan a strong choice for market expansion. Building on this growth strategy, the partnership with JSOL also accelerates Comet's entry in the global automotive market because JSOL and the LS-DYNA product have a strong position in the automotive industry. Commented Dan Meyer, President and CEO of Comet Solutions, "We achieved over 220% revenue growth in China in 2011. Now, with the partnership with JSOL, we expect to continue record company growth fueled by multiple Asian markets."

According to Toshihiro Hayashi, General Manager, JSOL Engineering Technology Division, "Comet is a proven tool that makes CAD-integrated process automation and concept design exploration easier and faster, and lets the designer utilize CAE more effectively. With Comet and its Intelligent Templates, customers can achieve higher quality, lower costs, and shorter development time with better-informed decisions. We are looking forward to a long-term relationship with the Comet brand."

Added Meyer, "JSOL has deep knowledge of CAE, strong technical services capabilities, and a keen understanding of how customers desire to take better advantage of CAE to achieve their product development goals. These competencies and the mutual commitment to long-term customer success make them a natural partner for Comet Solutions."

About JSOL Corporation

JSOL Corporation is a group company of NTT Data and the Japan Research Institute. By matching the advanced technology and business know-how developed during its days as the Japan Research Institute in a broad array of fields from finance and public services to production with the all-encompassing power of the NTT Data Group, JSOL is able to provide solutions that further increase mobility and expertise. Each member of JSOL becomes a powerful specialist, and progresses into a total IT service provider who can provide high quality IT service. For more information, visit JSOL at <http://www.jsol.co.jp/english/>.

About Comet Solutions, Inc.

Comet Solutions develops and markets a workspace for engineering teams to do rapid and robust design space exploration from concept discovery and selection through concept validation using a model-based engineering approach powered by proprietary Abstract Engineering Model[®] technology. Comet[®]

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software is a tool-open, extensible, vendor-neutral performance engineering workspace that enables multi-fidelity, multi-physics modeling and simulation. With Comet, companies can exploit the full potential of their existing CAD/CAE/PLM tools and explore more design alternatives, enabling the rapid development and delivery of more innovative, higher quality, and cost-effective products. For more about Comet Solutions' products, send email to info@cometsolutions.com or visit the company's website at www.cometsolutions.com.

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Delcam Celebrates 40 years of CAD/CAM

26 June 2012

Delcam held its latest Technical Sales Partner Meetings in the UK and USA over the last two weeks, with over 150 engineers from the company's sales network receiving training in the latest releases of its software. The UK Meeting coincided with the 40th anniversary of the first public display of CAD/CAM technology at the Machine Tool Exhibition held in Olympia, London, during June 1972.

The presentation was arranged by the late Donald Welbourn, who had lead research into computer-aided manufacturing at the Cambridge University Engineering Department since first becoming fascinated by the possibilities of the new technology in 1965. In 1972, the CUED was able to obtain two 3-axis NC machine tools with a DTI grant, thus enabling the previous work in CAD to be expanded into CAM. One of these machines, a Hayes milling machine, went onto the firm's stand at the exhibition.

Commercialisation of the Cambridge technology began in 1974 after The Delta Group seconded Ed Lambourne to work with at the University for two years while taking an M.Sc. In 1977, Delta founded a new subsidiary, Deltacam Systems Ltd., to advise on CAD/CAM and to supply time-sharing services to other firms in the group. The Managing Director of the subsidiary was Hugh Humphreys, while Ed became the Technical Director. Hugh and Ed subsequently lead the staff buyout from the Delta Group which created Delcam as an independent company in 1989.

Since then, Delcam has become firmly established as the world's leading specialist supplier of CAM software and associated services, with the largest development team in the industry. More than 250 people are employed at Delcam's Birmingham headquarters, with over 300 more in the company's overseas subsidiaries.

Delcam's software is now used by more than 39,000 organisations in over 90 countries. These customers range from multi-national corporations to independent designers, toolmakers and sub-contractors, and come from a wide variety of industries, including aerospace, automotive, electrical appliances, footwear, healthcare, motor sport, packaging, toys, sports equipment, jewellery and signmaking.

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The company offers a comprehensive range of machining software – PowerMILL for high-speed and five-axis machining, FeatureCAM for feature-based programming and ArtCAM for artistic applications, while PartMaker provides a dedicated solution for Swiss-type lathes and turn-mill equipment. Supporting software for product design, tooling design, reverse engineering and inspection is also available for companies requiring a complete CAD/CAM solution.

Delcam is a supplier of CAD/CAM systems to the footwear industry, with its Delcam CRISPIN software being able to provide integrated design and manufacture of lasts, uppers and soles. More recently, the company has introduced dedicated software for the healthcare industry, specifically for the design and manufacture of dental restorations and custom orthotic insoles.

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EDA Direct Brings Arena Cloud PLM to Its Electronic Design Automation Customers

26 June 2012

Arena Solutions has signed a reseller agreement with EDA Direct allowing EDA Direct to sell Arena's applications, including its flagship cloud PLM solution—[BOMControl](#).

[EDA Direct](#), reseller of electronic design automation (EDA) software products, is Arena's first North American reseller. According to EDA Direct CEO Sanjay Patel, "EDA focuses on the design process—but those designs ultimately have to be sourced and manufactured. Our partnership with Arena enables us to provide customers with a robust, easy-to-use cloud PLM solution that can help them better manage the product design/manufacturing process."

Patel adds that the partnership was a natural fit due to the synergy between the two companies. While products are designed in EDA tools, once it's time to build a prototype, dedicated cloud PLM tools are needed to keep product data centralized and accurate. Patel says that EDA Direct customers can count on Arena's cloud PLM applications to help them make more timely, accurate decisions, move projects through the design phase more quickly, reduce opportunities for errors, decrease latency and speed products to market.

Arena's vice president of sales and strategic alliances Andrea Pitts says Arena's just-released [PartsList](#), which was created especially for engineers, will be particularly valuable to EDA Direct's customer base. "Our reseller relationship with EDA Direct will help us take our solutions to a new group of potential customers. In addition to sharing the value of BOMControl, we're excited to be able to offer PartsList—a nearly-free solution that introduces the value of PLM tools," she says. "PartsList pulls availability, cost information and datasheets with one click, turning any list of parts into a purchasable BOM that can be shared with document control, purchasing or potential vendors."

Patel adds, "For many of our customers, Arena's new PartsList product will help engineers move quickly from the design process to documented BOMs."

About EDA Direct

EDA Direct, which was incorporated in 1997, specializes in the sales and support of EDA software products and is a leading reseller of EDA products from several companies, including Clisoft, Concept Engineering, Downstream Technologies, Mentor Graphics and MunEDA. EDA Direct operates under distributor agreements and serves as an extension of the vendors' sales force, offering only best-of-breed solutions and one-stop software shopping.

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Geometric Expands Operations in Pune

28 June 2012

Geometric Limited announced the opening of a new delivery center at the Blue Ridge SEZ in Hinjewadi Phase I, Pune. The company plans to use this 300-seater facility to cater to new projects and businesses.

This facility will add to the already significant presence of Geometric in Pune; Geometric has its largest delivery center in the Hinjewadi Phase II, and its joint venture company, 3DPLM Software Solutions in Hinjewadi Phase I.

Geometric started its operations in Pune in 1995, and was one of the first companies to establish its office in the Hinjewadi IT Park. The company also has delivery centres in Mumbai, Bengaluru, Chennai, and Hyderabad in India, as well as in Asia, Europe and North America, giving its customers a true global engineering delivery platform.

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IES Offers Free Access to VE-Navigator for LEED

27 June 2012

[Integrated Environmental Solutions \(IES\)](#), a provider of integrated performance analysis software and consulting services for sustainable building design and operation, today announced an exclusive offer - full access to its [VE-Navigator for LEED](#) for free. As a USGBC LEED Automation Partner, IES is creating an opportunity for customers to gain hands-on experience with its LEED tool prior to the launch of LEED v4.

“Our software fully supports those whose aim it is to measure, improve and transform the planet through its built environment, which works in synergy with the aims of the LEED program.”

“We’re excited by this joint initiative with the USGBC. Offering an incredibly beneficial product for free to our customers firmly demonstrates our support for LEED and enables us to engage further with

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the USGBC community,” said Don McLean, founder and CEO of IES. “Our software fully supports those whose aim it is to measure, improve and transform the planet through its built environment, which works in synergy with the aims of the LEED program.”

The VE-Navigator for LEED provides an automated and comprehensive analysis assessment of LEED credits for daylighting, comfort, water and renewables. Its step-by-step user-friendly structure allows the user to input and manipulate exact building data to ensure an accurate and streamlined process, which produces reports suitable for use with LEED letter templates. Users can also increase LEED credits - up to 19 for NC & Schools and up to 21 for C-S + 1 possible exemplary point - by adding LEED Energy capabilities with the [VE-Navigator for ASHRAE 90.1](#).

“As a LEED Automation Partner, IES’ VE-Navigator for LEED and ASHRAE 90.1 will become an important part of the LEED v4 review process,” said Scot Horst, SVP, LEED and Strategic Innovation of USGBC. “The USGBC is dedicated to making LEED v4 a success, and the integration with our Automation Partners’ tools, like IES, is intrinsically linked to this.”

About IES

Integrated Environmental Solutions’ (IES) mission is to advance the sustainability of the world’s built environment through the use of integrated performance modelling technology, delivering resource efficient, low-energy, zero-carbon buildings and cities for future generations. For additional information, please visit www.iesve.com.

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Kalido Announces New Data Governance Partnership

25 June 2012

At the [Data Governance & Information Quality Conference](#) today, Kalido announced a partnership with EMC Consulting to help companies define and accelerate successful data governance initiatives.

As organizations embark upon data governance projects, they need to not only develop a charter for how the company will execute a data governance strategy, but operationalize processes to improve data policy compliance across the enterprise.

A clearly defined data onboarding process is critical to the success of a data governance initiative, helping to build in roles and responsibilities that keep execution on track.

With the partnership, customers will be able to leverage EMC Consulting's data governance methodology in combination with Kalido's data governance director software to create a repeatable, scalable, transformative approach to data governance.

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Joe Dossantos, practice leader, EMC Consulting, said: "Given the growing emphasis on big data, many of our customers are taking a closer look at their data governance processes. By partnering with Kalido we can guide organizations through a methodology to establish governance policies and equip them with a solution proven to accelerate compliance with those policies across the organization."

Bill Hewitt, president and CEO of Kalido, said: "Data governance is more than just nice to have as companies are beginning to realize the impact poor information can have on business decisions. By shortening the cycle between data governance strategy and benefit, we can help organizations glean the real value of data governance -- improved business performance."

About Kalido

Kalido is a provider of agile information management software. Kalido enables companies to manage data as a shared enterprise asset by supporting the business process of data management. Kalido software has been deployed at more than 300 locations in over 100 countries, including 20 percent of the world's most profitable companies as determined by *Fortune Magazine*. More information about Kalido can be found at: <http://www.kalido.com>.

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SigmaTEK Launches YouTube Channel

26 June 2012

SigmaTEK Systems, LLC, CAD/CAM nesting company, announces the *SigmaNEST® YouTube Channel*.

www.youtube.com/user/SigmaTEKsystems

The site provides instructional and customer application videos for fabricators seeking to improve CAD/CAM parts nesting, slash scrap rates and increase cutting machine performance.

About SigmaTEK

SigmaTEK Systems, LLC develops and sells SigmaNEST, a comprehensive software solution for nesting, NC programming and cutting of steel sheet, plate, tube, and wood materials. SigmaNEST is involved in CAD/CAM nesting system for plasma, laser, punch, oxyfuel, waterjet, router, knife, tube/pipe and combination cutting machines. SigmaNEST ensures superior material utilization, machine motion optimization, and maximum part quality balanced with cutting speed, work flow integration, material handling, accurate estimates and information management. Visit www.sigmanest.com or call 513.674.0005.

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Siemens PLM Software Named a Best Diversity Company Five Years in a Row

27 June 2012

Siemens PLM Software today announced the company has been selected as a “Best Diversity Company for 2012” by readers and website visitors of *Diversity / Careers in Engineering & Information Technology (Diversity/Careers)* magazine.

Diversity/Careers magazine readers and website visitors voted during March and April in the sixth annual Best Diversity Companies Readers’ Survey. Voters identified the corporations, government agencies and other organizations in the United States employing technical professionals that are doing the highest quality work in their diversity efforts. Selections were based on perceptions formed by personal experiences, discussions and published information.

Diversity efforts are increasingly important for manufacturing revitalization efforts in the U.S. According to the President’s Council on Jobs and Competitiveness, there are [3.3 million job openings in the U.S.](#), many going unfilled for several months, as roughly half of employers now say they’re having a hard time finding qualified workers to hire, especially in technical fields.

As a global technology company, Siemens PLM Software must be able to recruit talented people, not only in the U.S., but around the world. A diverse environment in which employees can best develop and contribute their skills is critical to maintaining a leadership position in the PLM market. Diverse teams with a broad spectrum of skills, experience and qualifications increase the wealth of ideas in the organization and strengthen the power to innovate.

“Readers have spoken and Siemens PLM Software has been recognized as a 2012 Best Diversity Company, for its support of minorities and women, attention to work/life balance and commitment to diversity,” said Roberta Renard, CEO and publisher, *Diversity/Careers*.

“We have a long history of making diversity a high priority and we consider our diverse employee base a true competitive advantage,” said Hulas King, director, Global Community Relations and GO PLM Programs, Siemens PLM Software. “To be voted a Best Diversity Company again tells us that we are focusing on the right diversity initiatives critical to maintaining our leadership position in the PLM market.”

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Survey Shows Single, Searchable Source for Validated Technical Data-Especially Materials Data, Codes & Standards and Best Practices-Top Design Engineers' Wish List

25 June 2012

For engineers it is increasingly difficult to quickly find accurate and trustworthy technical information, a recent survey finds. Navigating multiple sources of information, finding best practices, securing approvals and permissions, along with the difficulty in validating the accuracy of the information, topped the list of frustrations of engineers polled in the "Engineering Tools and Information Spring 2012 Survey" conducted by The Parthenon Group and sponsored by [Knovel](#).

Parthenon Group surveyed more than 600 engineers working in the Aerospace & Defense and Engineering Design and Construction industries about their use of technology, their information needs as well as their satisfaction with various providers of engineering information and tools including Knovel.

The survey identified a number of challenges that engineers face as they aim to improve how they find and interact with critical data. Findings include:

- Access to searchable materials properties, regulations, codes and standards topped the list of information categories engineers seek online;
- Searching multiple sources to find accurate engineering data needed for critical decisions during the design process is a top frustration;
- The ability to extract and interact with data is an increasingly important aspect of engineers' searches for new tools.

"Our research indicates that the lost productivity associated with assembling and validating technical information from multiple sources is a major pain point for engineers," said Terry Bradshaw, Senior Principal at The Parthenon Group. "This is good news for Knovel, whose users regard it as a comprehensive source of trusted technical information and the best one-stop-shop for materials data and best practices, two of the most important types of content in the engineering workflow."

Three distinct clusters of design engineers, defined primarily by their differing needs for engineering tools, were highlighted in the survey:

- **Process-Focused**. Process-focused engineers rely heavily on workflow and collaboration tools. Their top productivity needs are electronic workflow approval tools and collaboration tools to identify experts within their organizations (34 percent of engineers surveyed).
- **On-the-Go**. On-the-go engineers rely heavily on mobile tools. Their top productivity need is for engineering-focused mobile applications for tablets or smart-phones (48 percent of engineers surveyed).
- **Integration-Focused**. Integration-focused engineers seek better ways to analyze and integrate the data. They look for best practices and other forms of institutional knowledge. Their top productivity needs are for integration between technical information sources and engineering

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software and for better ways to interact with and extract data and formulas from technical information (18 percent of engineers surveyed).

"Customers tell us that Knovel is a must-have during product design and development," says Chris Forbes, CEO of Knovel. "Whether engineers need to get smart on a topic during heavy lifting at project launch, find materials or document decisions in a report, the ability to access validated technical information -- and easily export that information into their work -- is a significant benefit and time saver. By reducing time spent searching and increasing the quality of information available, Knovel significantly improves efficiency throughout the engineering process."

About Knovel

Knovel is a Web-based application integrating technical information with analytical and search tools to drive innovation and deliver answers engineers can trust. Knovel users include thousands of engineers and applied scientists worldwide. Knovel has more than 700 customers worldwide including 74 of the Fortune 500 companies, five of the Top 10 Constituents on the FTSE 100 Index and more than 300 leading universities. Founded in 2000, Knovel is a private company headquartered in New York City. For more information, visit www.knovel.com or call (866) 240-8174.

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Tech Data Expands Relationship with Oracle to Distribute Full Line of Oracle Products

26 June 2012

Tech Data Corporation, a Platinum level member of Oracle PartnerNetwork (OPN), today announced that it has expanded its relationship with Oracle to distribute Oracle's complete line of hardware products and applications in North America. In adding these to the Company's current global offering of Oracle software, Tech Data is now effectively positioned as a full global distributor of Oracle's complete line of technology software, applications, and systems hardware products, including engineered systems.

"Tech Data's expanded relationship with Oracle is a strategic move for Tech Data," said Joe Quaglia, senior vice president, U.S. Marketing and president, TDMobility at Tech Data. "Our relationship not only makes it easier for Tech Data's channel of 60,000 resellers to become fully engaged with Oracle's full line of channel products, it also allows us to make a significant impact for both our resellers and Oracle to help end-users get the right solutions to grow their business. As a global distributor of Oracle products, our team can better help our resellers provide complete solutions that best fit the needs of their customers."

Tech Data's dedicated and expanded Oracle team provides resellers with technical expertise, partner enablement and training, program management, and sales and marketing support to help both current and new Oracle partners leverage the full Oracle portfolio to drive new growth and margin opportunities. Tech Data's commitment to world-class service levels on deal support and order

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fulfillment, as well as financing support through TDCreditServices, also helps ensure that Oracle resellers are equipped with the necessary tools they need to succeed.

"Oracle is excited to expand our offering relationship with Tech Data to include Oracle software, hardware and engineered systems, further aligning Oracle's strategic investment in the growth of the market segment," said Jim Standard, group vice president, Global Channel Sales at Oracle. "Tech Data is a fundamental leader in the industry with an expertise in distribution, and we look forward to further developing this dynamic relationship."

"We are pleased to see the addition of Oracle hardware into Tech Data's product stack," said Joe Young, director of Oracle Solutions at iAppSys, Inc. "As an Oracle PartnerNetwork Specialized Partner, iAppSys' focus and commitment to our clients is building complete, sustainable and scalable end-to-end solutions. These additional products enhance our custom offerings and provide us with more flexibility to develop, build, and deliver additional-industry leading technology solutions."

For more information on Oracle products or to speak with Tech Data's dedicated Oracle team, contact (800) 237-8931, ext. 82082 or pscoracle@techdata.com

About Tech Data

Tech Data Corporation is one of the world's largest wholesale distributors of technology products. Its advanced logistics capabilities and value added services enable 125,000 resellers in more than 100 countries to efficiently and cost effectively support the diverse technology needs of end users. Tech Data generated \$26.5 billion in net sales for the fiscal year ended January 31, 2012, and is ranked 109th on the Fortune 500(R). To learn more, visit www.techdata.com

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Vico Software Announces Expansion in India with Mansycom

26 June 2012

Vico Software is pleased to announce a new partnership with Mansycom Consultants Pvt. Ltd., who will introduce Vico's integrated 5D BIM solutions to the Indian market.

Currently, India's construction market is pegged at \$140 billion based on cost of construction put in place. Forecasts for the market indicate unprecedented growth to \$620 billion by 2020, or 11% of GDP.* These projections put India as the third-largest construction market, after China and the US. As the Indian economy continues to expand, there is an immediate need for infrastructure, housing, healthcare and educational facilities, retail, and hospitality. Whether sponsored by government bonds, public-private partnerships, or private investment, these new projects are being fast-tracked and mandates are being issued to include the very latest building technologies.

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There are several initiatives that support the growth of building technologies, such as 5D BIM, throughout the construction industry:

- The Construction Industry Development Council (CIDC) is working to standardize construction contracts to include clauses for the use of technology;
- The Indian Green Building Council (IGBC) encourages technologies which can quickly calculate the costs of materials and labor for green buildings versus standard buildings;
- Leading public sector organizations have started stipulating the use of BIM in their RFPs for engineering and construction contracts;
- Private sector construction and consulting organizations are adopting BIM to provide long term competitive advantage for their companies.

“It is essential to incorporate the latest BIM technologies into our country’s construction practices,” stated Suresh K. Gupta, President and Director of Mansycom Consultants. “Vico Office delivers real-time integration between the 3D model geometry and the construction quantities, which drive the 4D schedule and 5D estimate. For a construction manager, this is a quantum leap from drawings and digitizers – it’s a dream come true. We are proud to represent Vico Software because we believe in their vision of integrated construction management.”

The [5D BIM Workflow in Vico Office](#) starts with clash detection and constructability analysis, construction-caliber quantity takeoff, location breakdown structure, cost planning and target cost tracking, plus planning, schedule optimization, and schedule animations for communicating with the Owners and Subs. Vico Office works with Revit, Tekla, and ArchiCAD models, as well as CAD-Duct, SketchUp, 3D DWG, and IFC imports. In addition, there is a full reporting engine to capture the intellectual property contained in the database structure. But this integrated construction management doesn’t stay in the office; it goes out to the trailer with production control capabilities for the superintendents and crews. And all project stakeholders can immediately see what happens when a change is made to the design of the building – how it impacts the schedule and how it impacts the budget.

“Virtual Construction with Vico Office can dramatically improve the way construction projects are delivered. We have witnessed this first-hand with customers in over thirty countries,” stated Donald Henrich, Vico Software Co-Founder and Executive Vice President. “Because the Indian market is so broad and diverse, we knew we needed a partner who is committed in three areas: market education, technology advocacy, and expert consulting services for change management. We are very impressed with Mansycom’s commitment in these areas and their command of BIM technologies. We look forward to many new achievements and successes together.”

For more information, please watch the short video, [5D BIM for Dummies](#). If you are a construction firm or Owner in India, you are invited to [try Vico Office in our Structured Evaluation Program](#).

** Source: The Economic Times, "India to be \$5.6 Trillion Economy by 2020: Dun & Bradstreet," August 17, 2011.*

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Events News

3D Systems Brings "Smarter 3D Printing" Seminars to Your Area

28 June 2012

3D Systems Corporation announced today "Smarter 3D Printing," an interactive and informative seminar series for entrepreneurs and professionals to experience the latest 3D printers in action and explore the benefits of 3D Systems' end-to-end, 3D content-to-print solutions and services. These seminars provide immediate access to powerful ideation-to-production tools and services and are offered July through September 2012 at participating 3D Systems' partner locations across North America ([more info / register](#)).

"Smarter 3D Printing" simplifies the complex 3D printing landscape, highlighting the power of accessibility, affordability and choice. 3D Systems offers the broadest range of 3D printing solutions, removing sourcing and integration complexity and delivering substantial time and cost savings. The seminar series is ideal for design and manufacturing professionals as well as business leaders and entrepreneurs seeking to infuse innovation and competitive advantage into their operation. Participants will learn:

- How to choose the right solution for virtually any application
- The capabilities and affordability of [ZPrinter® and ProJet™ 3D printers](#)
- The inside scoop on next-gen ZPrinter® 850 and ProJet™ 3500
- How to complement in-house 3D printing with Quickparts® on-demand services
- How to save money with unified training and support across all products

"Summer is a great time for professionals to catch up on emerging trends, network with local colleagues, and make strategic investments that offer a solid financial return," said Michele Marchesan, 3D Systems Vice President, Global Sales, Personal and Professional 3D Printers. "We're making it easy by bringing "Smarter 3D Printing" to you."

About 3D Systems Corporation

3D Systems is a provider of 3D content-to-print solutions including 3D printers, print materials and on-demand custom parts services for professionals and consumers alike. The company also provides creative content development, design productivity tools and curation services and downloads. Its expertly integrated solutions replace, displace and complement traditional methods and reduce the time and cost of designing new products by printing real parts directly from digital input. These solutions are used to rapidly design, communicate, prototype and produce functional parts, empowering its customers to create with confidence.

More information on the company is available at www.3DSystems.com.

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BobCAD-CAM to Show New 5 Axis CNC Machine Technology at IMTS 2012

24 June 2012

Manufacturing CAD/CAM software company BobCAD-CAM will show its new 5 Axis cnc software module at the IMTS show at McCormick Place in Chicago, IL September 10-15, 2012 - Booth #E-3360. Since the mid 1980's BobCAD-CAM has experienced steady growth as a developer and supplier of PC-based CNC programming software for CNC shops requiring technology for Milling, Turning, Wire EDM, Waterjets, Routers and more. "Over the past 25 years we have seen a large volume of change in CNC machine technology and automation and are proud to have played a major role in developing CAD/CAM software for manufacturers," commented Mr. Chris Corbell, BobCAD-CAM VP Marketing.

The latest BobCAD-CAM software provides CAD design, CAM toolpath and G-Code programming for 2, 3 and 4th axis part types. The latest announcement indicates that their technical staff will be demonstrating the new 5 Axis machining module at the show. "With 5 Axis CNC machines becoming more popular as they have been over the past 10 years, we are very excited to have a powerful solution for 5 Axis machine programmers to take advantage of," said Greg Myers, the BobCAD-CAM Development Director. At the show, attendees will be able to see a wide range of proven 5 Axis machine strategies that include SWARF machining, 5 Axis contour machining, Flowline cutting, Multi-pass roughing and multi-surface finishing toolpaths that are all developed to provide flexibility and control in 5 Axis CNC Machining.

For more information on [BobCAD-CAM at IMTS click here](#). You can also call direct at 877-262-2231 or 727-442-3554.

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Oracle Announces the Oracle Customer Experience Summit @ OpenWorld in San Francisco During Oracle OpenWorld 2012

26 June 2012

Today, Oracle announced the Oracle Customer Experience Summit @ OpenWorld, which will take place in San Francisco October 3 - 5, 2012 during [Oracle OpenWorld 2012](#).

Combining keynotes, working group sessions and networking opportunities, the summit will bring together leading brands and experts to share insights, success stories and lessons learned to succeed in the Experience Revolution -- the new era of the empowered consumer.

Oracle executives will present Oracle's strategy and complete suite of customer experience solutions

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intended to help businesses deliver connected, consistent and personalized customer experiences.

The Oracle Customer Experience Summit is designed to complement Oracle OpenWorld by identifying the most pressing problems that customers and partners need to solve to achieve organizational support, helping them take the customer experience to the next level.

Sponsorship and exhibit opportunities for the Oracle Customer Experience Summit are available on the event website at: <http://www.oracle.com/events/us/en/cxsummit/exhibit-sponsor/index.html>

Registration for the Oracle Customer Experience Summit is now open. [Early Bird Registration](#), which offers the deepest discount, is available until July 13, 2012.

"The Oracle Customer Experience Summit @ OpenWorld will help executives identify and learn about the latest trends, innovations and best practices to fuel successful customer experience strategies," said Anthony Lye, senior vice president, CRM, Oracle. "Attendees will share ideas in interactive sessions that are designed to power brands to meet the customer experience challenge, which has quickly emerged as one of the most important and defensible differentiators and drivers of business value."

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PCS Engineering Announces 3D Printing, CNC Software, and 3D Scanning Road Show Schedule 25 June 2012

PCS Engineering will host 3D printing, 3D scanning and CNC software seminars in select Maryland, Pennsylvania and Virginia venues this summer.

"The road show will display how leading manufacturers use CAD/CAM software, 3D scanning and 3D printing technologies to accelerate the product development process," said PCS Engineering, Inc. CEO Michael Huggins. "It is intended for manufacturing professionals seeking to improve operations with greater efficiencies in terms of cost and time required to bring new products to market."

Technology providers will include software and equipment demonstrations such as:

- DP Technology: Computer-Aided Manufacturing (CAM) Software
- Epilog Lasers: CO2 Laser Engraving Systems - Special Feature Laser Cutting Demonstration
- GoMeasure3D: 3D Scanning, Inspection and Reverse Engineering 3D Measurement Reverse Engineering and Inspection Solutions - Special Feature the Microscribe Portable CMM Measurement Arm Demonstration
- Objet: 3D PolyJet™ Matrix technology and Digital Materials - Special Feature Objet30 Demonstration
- Siemens PLM: SolidEdge Software Modeling and Assembly Tools

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2012 PCS Engineering, Inc. Road Show Schedule:

- **June 25:** Marriott SpringHill Suites Virginia Beach Oceanfront, 901 Atlantic Ave., Virginia Beach, VA
- **June 26:** NASA Langley Research Center*, Hampton, VA
- **June 27:** Newport News Marriott at City Center, 740 Town Center Dr., Newport News, VA
- **June 28:** Richmond Marriott, 500 East Broad St., Richmond, VA
- **July 9:** Philadelphia Marriott West, 111 Crawford Ave., West Conshohocken, PA
- **July 10:** Courtyard Reading Wyomissing Hotel Marriott, 150 North Park Road, Reading, PA
- **July 11:** Lancaster Marriott at Penn Square, 25 South Queen St., Lancaster, PA
- **July 12:** Courtyard Harrisburg Hershey Marriott, 725 Eisenhower Blvd., Harrisburg, PA
- **July 30:** Virginia Tech, Blacksburg, VA
- **July 31:** Virginia Western Community College, 3094 Colonial Ave., Fishburn Hall F206, Roanoke, VA
- **August 1:** James Madison University, Festival Conference Center, 1301 Carrier Dr., Harrisonburg, VA
- **August 2:** Harley Davidson of Fredrick, RR 255 Frederick, MD

Road Show events run 10:00am to 3:00pm and will include live 3D printing, 3D imaging and laser cutting and software demonstrations from technology experts.

Industrial designers and manufacturing engineers interested in 3D printing a part should send a CAD model in .STL format to events@pcsenginc.com one week prior to each scheduled event. Space is limited and available on a first-come, first-service basis. During 3D imaging demonstration, PCS Engineering, Inc. will scan mechanical shapes and provide the data output to attendees.

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Technia Organizes Innovation and PLM Event at Cirkus in Stockholm

25 June 2012

On September 26, Nordic based PLM event is taking place: The Technia PLM Innovation Forum at Cirkus in Stockholm.

Innovation Forum has in the past decade become a natural meeting point for everyone involved in PLM (Product Lifecycle Management). The focus is on how companies, regardless of size and industry, can streamline their processes and thereby increase growth and market shares by using PLM. Last year, the event was attended by hundreds of visitors from around the world.

Whoever visits the Innovation Forum this year will have the opportunity to listen to, and exchange

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experiences with, among others, Mike Relich, who is the CIO of the multi-national fashion company, GUESS Inc., PriceRunners founder Kristofer Arwin and ENOVIA manager Andy Kalambi. Even companies such as Ericsson, GE Healthcare, Gina Tricot and Skanska are represented in the long list of speakers.

"This year's approach has the potential of turning out to be the most interesting one ever. We have a fantastic line-up of speakers and also many interesting activities during the day. I look forward to discussing with our visitors how PLM can create winning and innovative strategies for tomorrow's products "says Technias CEO Jonas Gejer.

Technia PLM Innovation Forum is followed by TVC Focus Day on September 27. The focus of the day is how the Technia Value Components (TVC) can maximize the benefits of a PLM system.

More information about the Innovation Forum and TVC Focus Day on www.technia.com/forum12

About Technia

Technia is a supplier of Product Lifecycle Management (PLM) solutions for the creation and management of product information throughout the entire product lifecycle. Technia has about 150 employees and is a part of the Addnode group (listed at the Nasdaq OMX Nordic List, Small Cap). The company is a strategic partner to more than 200 Nordic companies and has offices in Sweden, Finland, Norway and North America. Technia's customer list includes: [Toyota](#) Material Handling, Ericsson, Electrolux, Forsmark, GE Healthcare, Haglöfs, Metso Paper, Mölnlycke Health Care, Nokia, Oticon, Scania, Philips Digital Mammography, Skanska, Sony Mobile and SSAB. For more information about Technia, please visit www.technia.com

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Tekla, Inc. Proud to Have Ray Napolitan Open the North American User Meeting 2012

20 June 2012

Tekla, Inc. has announced Ray Napolitan will deliver the keynote address at Tekla North American User Meeting 2012 in Orlando, Florida. Mr. Napolitan, is President of Vulcraft/Vercor Group and also a Vice President at Nucor Corporation.

Mr. Napolitan has over 33 years of experience in manufacturing and construction including a wide variety of technical, operations, sales and leadership roles.

The only event completely dedicated to Tekla's Users and Partners, the Tekla North American User Meeting is Tekla's most anticipated event of the year.

General Sessions will address trends in the building and construction industry. The technical sessions and break-out sessions will showcase refinements to the BIM software and dive deep into new features. New this year, API tracks are available to both beginners and experienced users of the API. These API

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workshops will give participants hints and tips and practical examples relating to Tekla Structures, as well as discuss future development ideas.

Providing access to Tekla's service team, UM12 also offers attendees the unique opportunity to develop their Tekla Structures skill set and seek advice from experts.

Planned evening events create a relaxed setting for Tekla Users to network with professionals and partners involved with many different facets of the Building and Construction industry.

Other activities at UM12 include:

- A welcome Cocktail Reception on Wednesday, August 15 for our guests to catch up with past attendees, network, explore the exhibit hall, and relax before the meeting begins.
- Special presentations from UM12 sponsors including: Trimble and Peddinghaus.
- New this year, earn PDH (Professional Development Hours) with our included API tracks.
- Tekla North America BIM Awards announced at the Thursday BIM Awards Gala. Enjoy dinner, drinks, and live entertainment.

Tekla User Meeting will be held at the Hyatt Regency Grand Cypress resort in Orlando, Florida. Visit the Tekla, Inc. UM12 website for registration and more details at <http://tek.la/um12>. Members of the media are invited to attend the keynote presentation and can register by contacting Madeleine Ehrnrooth at info.us@tekla.com

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Implementation Investments

Autodesk Helps Huntair Turn Operating Rooms into Cleanrooms

26 June 2012

Autodesk, Inc has recognized Huntair, Inc. as the June Autodesk [Inventor of the Month](#) for the company's use of Autodesk software to develop a revolutionary airflow delivery system that has the potential to reduce healthcare-acquired infections.

“With this approach, we not only have air flow and air delivery, but also a UL-listed light fixture and a structural interface between equipment, light booms and the building structure. Nobody else is doing anything like it for the operating room environment”

Huntair — a designer and manufacturer of specialized heating, ventilating and air conditioning (HVAC) systems — leverages both [Autodesk Simulation CFD](#) and [Autodesk Inventor](#) software to develop its CLEANSUITE system that is inspired by cleanrooms used in the semiconductor and pharmaceutical

industries.

With healthcare-acquired infections claiming 99,000 U.S. lives annually and costing the U.S. healthcare system billions of dollars, the CLEANSUITE system helps avoid contamination of patients in any operating room by delivering a controlled stream of low turbulence, temperature-controlled and HEPA-filtered air over the operating table. As a result, airborne contaminants have less chance of reaching the patient undergoing surgery.

Comprehensive Flow Simulation

While most systems rely on multiple diffusers to deliver air, the CLEANSUITE system uses a single diffuser approach. Huntair created computational fluid dynamic (CFD) models in Autodesk Simulation CFD software to better understand the performance of its product before anything was built.

“Autodesk CFD Simulation software helped us understand what is *actually* going on with airflow in the operating room versus what *should* be happening theoretically,” said Kevin Schreiber, global director of healthcare for Huntair. “As a result, we were able to optimize our design to minimize turbulence and control the direction of the air in the operating room, allowing for improved contamination control over the sterile surgical setting.”

Engineers also relied on Autodesk Simulation CFD models to test the CLEANSUITE system’s air temperature control. Standard air temperature in a hospital can vary as much as 10°F due to the thermal effects of lights and people. Engineers optimized the CLEANSUITE system to maintain a steady temperature from when air enters the room, to when it reaches the patient.

Autodesk Inventor Software for Modeling

Huntair engineers use Autodesk Inventor software to model the modular, ceiling-hung CLEANSUITE system with integrated filtration, electrical, piping and structural equipment supports.

“With this approach, we not only have air flow and air delivery, but also a UL-listed light fixture and a structural interface between equipment, light booms and the building structure. Nobody else is doing anything like it for the operating room environment,” said Schreiber.

Huntair also uses Autodesk Inventor software to market CLEANSUITE and show their model to their customers.

“Because not everyone has CAD ability, we can use Inventor software files and create a 3D PDF document for our customers to view the model. It’s amazing and they love it!” adds Schreiber.

Huntair’s innovative new system has already gained considerable support in the healthcare industry. The company has built and installed more than 14 CLEANSUITE systems for healthcare providers and is

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now working on designs for several other healthcare facilities, including ambulatory surgery centers.

“The combination of Autodesk Simulation CFD and Autodesk Inventor offers fast, accurate, and innovative analysis and modeling capabilities,” said Brenda Discher, vice president, Manufacturing Industry Strategy and Marketing at Autodesk. “By applying these capabilities upfront in product development — where decision-making is critical — Huntair’s system is changing the healthcare industry and has the potential to save thousands of lives.”

About Huntair, Inc.

Headquartered in Tualatin, Oregon, Huntair is a leader in airflow management. Its products range from specialized HVAC applications used in critical industrial environments such as biotechnology and pharmaceuticals manufacturing, aerospace and hospitals, to the extremely demanding cleanrooms used in semiconductor manufacturing. For additional information, visit www.huntair.com.

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CDS CAD Download Solution Implemented by Del-Tron Precision, Inc.

26 June 2012

[CDS](#) (Catalog Data Solutions) today announced that [Del-Tron Precision, Inc.](#) has implemented the CDS CAD download solution on its website.

Del-Tron Precision, Inc. based in Bethel, CT, has manufactured anti-friction linear bearings for over 30 years and offers one of the broadest product ranges in the industry. “The internet has changed industrial sourcing – designers typically research and select products online often before even talking to potential suppliers. Therefore our products have to be found online and our website needs to make it very easy to find and select the ‘right’ product. Once selected, viewing and downloading of 3D CAD models of the products saves time for designers and provides visual confirmation for buyers specifying our products”, said Emil Melvin, Director of Sales and Marketing at Del-Tron Precision. “We previously used a different CAD download supplier but switched to the [CDS ModelServer](#) SaaS solution because it offers an integrated solution within our website and hence a far simpler and better customer experience. CDS is also well proven in the market, right up-to-date technically and very responsive to our needs.”

“We’re delighted to have launched the Del-Tron Precision CAD download solution,” said John Major, CEO CDS. “As product selection and buying continues to change and evolve sales and marketing organizations need to continually come up with ways to get in front of the selection and buying cycle. Del-Tron Precision are now doing just that by offering CAD downloads and ensuring their products both remain in contention and exploit a new advantage made possible by the new process. The downloadable CAD models of the products save designers and buyers time and enable the products to be designed-in easily and quickly. Of the many types of online marketing content (e.g. white papers, case studies, brochures, videos, demos, recorded webinars, reviews, CAD model downloads, etc.) only one is known to lead to a sale nearly 50% of the time! CAD downloads may be the most efficient online marketing

tool available.”

CDS helps grow sales and strengthen customer loyalty for its clients through interactive online product catalogs, ecommerce, 3D CAD & BIM model delivery and product configurator solutions.

About Del-Tron Precision

Del-Tron Precision, Inc. was founded in order to serve the needs of automated equipment manufacturers for innovative, high quality and reasonably priced anti-friction linear bearings. After 30 years, we remain firmly focused on that original premise, offer one of the broadest product ranges in the industry - we concentrate on components which provide a reliable mechanical interface for modern industrial equipment. As the originator of the sub-miniature ball bearing slide assembly, Del-Tron Precision began operations in 1974 supplying original equipment manufacturers with the world's first commercially available sub miniature ball slide. Del-Tron has maintained the same high level of innovation by continually developing new products that deliver important advantages to its customers. Hundreds of thousands of Del-Tron slides, positioning stages, ball and lead screw actuators and other linear motion devices have been incorporated into medical diagnostic and other equipment, semiconductor processing equipment, computer peripherals, assembly systems, scientific instruments and many other products. Contact Del-Tron Precision for a distributor near you or click on www.deltron.com or call +1.800.245.5013.

About CDS

CDS (Catalog Data Solutions, Inc.) is a leading SaaS provider of product search, configuration, and online CAD solutions for Manufacturers and Distributors. Founded in 2005 with headquarters in San Jose, CA, CDS enables Manufacturers and Distributors to increase sales by enabling their products to be specified into new designs, improve website conversion rates, generate high quality sales leads, and improve customer service. CDS SaaS solutions include the CDS ModelServer™, CDS Catalog™, and CDS CAD Configurator™. CDS's highly skilled and experienced professional services team provides CAD modeling and implementation services for the successful deployment of CDS SaaS solutions. The company's customers include the world's leading manufacturers and distributors in the High Tech, Industrial Manufacturing and AEC industries. For more information CDS can be reached at 408.550.8820 or by visiting www.go-cds.com.

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D&K Engineering Selects Aras Enterprise PLM Software

26 June 2012

Aras® today announced that D&K Engineering, a global outsourced R&D, engineering and contract manufacturing services company headquartered in San Diego, California, has selected the Aras PLM solution suite to streamline, manage and enhance complex, multi-vendor electromechanical product development processes. As a global services provider, D&K Engineering will leverage Aras to ensure project quality for premier customers in medical and life sciences, kiosks, industrial and commercial

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printing, and military markets worldwide.

Providing full turnkey product development and manufacturing services that address the entire product life cycle and extended supply chain, D&K Engineering's world-class team provides its clients a one-stop shop for the development and manufacture of innovative electromechanical products and equipment.

“With Aras, we can integrate and manage information from a wide range of MCAD and ECAD applications in a single system while simplifying our environment by eliminating one-off redundant systems,” said Brad Cooley, CTO at D&K Engineering. “Combined with project management, workflow and other automation capabilities, Aras will enable us to improve customer service as well as profitability through greater efficiency and resource management.”

“As mechanical, electrical and software product development are increasingly intertwined, the ability for PLM to import, export, track and share information from numerous applications becomes more and more critical. As the only neutral enterprise PLM provider, Aras provides an open development platform with a transparent data model ideal for creating the packaged and custom integrations that modern, agile companies like D&K Engineering need,” said Peter Schroer, President of Aras.

About D&K Engineering

D&K Engineering is a global outsourced R&D, engineering and contract manufacturing Services Company focused on developing and manufacturing complex electromechanical products and equipment. With integrated engineering and contract manufacturing capabilities, D&K Engineering mobilizes the right people, processes, tools and infrastructure to create and deliver sustainable business value to its clients seeking to outsource the design and/or manufacturing of their equipment or products. For more information, please visit <http://www.dkengineering.com>

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Delastek Reduces Material Cost and Improves Quality with Automation Solutions from Virtek Vision and Gerber Technology

28 June 2012

Delastek Inc., of Grand-Mère, Quebec, specializing in the manufacture of composite structural aircraft and helicopter parts, reports a 5 percent reduction in composite material cost since installing a [Virtek® LaserEdge™](#) laser templating system and [GERBERcutter® DCS2500](#) computer-controlled composite cutting system. Delastek's customers include Original Equipment Manufacturers (OEMs) and Tier II aerospace suppliers, among others. The company manufactures the integrated internal cockpit for Quebec-based Bombardier Aerospace's CSeries medium-range jet airliners.

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Claude Lessard, president of Delastek, said, “We have invested heavily in systems which are compatible with that of Bombardier, because we must work together on the aircraft’s electronic model.”

Delastek’s project manager, Mathieu Doucet, said, “Automation has enabled us to significantly reduce our material expenses and ensure our product quality so we provide the highest components to our customers at a competitive price. These technologies are a central part of our plan to both increase our composite manufacturing capacity and expand our capabilities. The Gerber and Virtek teams brought us a suite of technology solutions that we couldn’t find from any other single supplier in the market.”

The GERBERcutter DCS2500 system is a high-speed, static cutting system designed to cut single to low plies of composite materials with precision. It cuts to within millimeters at speeds up to 1.1 meters per second. It also maximizes material utilization by eliminating buffer between parts required when cutting manually.

The Virtek LaserEdge system is a three-dimensional laser templating and positioning system that eliminates the need for physical templates, reduces costly rejects and saves set-up time. It projects a laser template onto molds to quickly and accurately guide operators through the ply layup process.

Todd Rhodes, president of Virtek, said, “Delastek is the epitome of how a small- to medium-size company can employ advanced technology to enable them to provide the highest quality products to some of the world’s biggest aerospace companies. We are proud to be their partner and provide them with a suite of solutions to address their automation needs.”

Founded in 1984, Delastek is an AS9100-certified company that operates in two facilities in Quebec – an 88,000-square-foot facility in Grand-Mère and another in Valcourt. The company specializes in the development and assembly of value-added composite products and electromechanical and electronic parts for the aerospace and transportation sectors. These products are used in the manufacture of, among other things, control systems for trains, dashboards, aircraft air ducts and control stick assemblies for helicopters.

About Virtek Vision

Virtek Vision International Inc. provides high-precision, laser-based kitting, templating and inspection solutions for composite processing. The company serves the world’s top 10 aerospace companies, among others. It is owned by Gerber Technology of Tolland, Connecticut, USA.

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Russia's VolgogradNIPImorneft Institute implements AVEVA Marine

26 June 2012

AVEVA announced today that VolgogradNIPImorneft has implemented AVEVA Marine for jack-up platform projects in the Caspian Sea. In addition to the AVEVA software, the contract includes a full range of services for implementation and training.

VolgogradNIPImorneft Institute works on complex projects so selected a 3D engineering design solution that met the needs of a marine environment as well as specific design standards such as detailed piping design. They were using two divergent systems which were very inefficient and access for all project designers to work on the same model was a huge challenge. AVEVA Marine effectively addresses these issues. It enables concurrent, multi-location engineering and will help VolgogradNIPImorneft Institute to attract new contractors to work on projects.

Evgeny Fedotov, Senior Vice President, Russia, India & Middle East, AVEVA comments, "VolgogradNIPImorneft Institute will benefit from the fundamental capabilities of AVEVA Marine such as automatic change highlighting across technical disciplines, allowing engineering teams to greatly improve the ability to meet important project deadlines. By implementing AVEVA Marine and adopting AVEVA's Integrated Engineering & Design approach, they will improve project efficiency and reduce costs through a single managed information model".

AVEVA Marine is a set of integrated applications created specifically for the unique processes of the engineering and design of ship and offshore structures, design management and the generation of accurate production information. To learn more about AVEVA Marine visit www.aveva.com/marine.

The VolgogradNIPImorneft Institute carries out design and survey work associated with the development of oil and gas condensate fields, including all types of engineering, residential, social and industrial infrastructure. Until June 2011 it was the engineering centre for LUKOIL company, but in the middle of 2011 it was established as a separate enterprise. Over the past 10 years the Institute has been the lead organisation for coordinating the development of offshore and foreign deposits.

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Sharda Motor Industries Ltd. Selects MSC Fatigue for Durability Analysis

25 June 2012

MSC Software Corporation today announced that Sharda Motor Industries Ltd. has incorporated [MSC Fatigue](#) into their Virtual Product Development process. MSC Fatigue will be used to perform durability analysis to predict the fatigue performance of the exhaust system and to take corrective actions, early in the design stage.

The recent feature advances in MSC Fatigue have enabled the Research & Development (R&D) Team at Sharda Motor Industries to design their exhaust systems against fatigue failures thereby improving the overall quality of the product. Access to MSC Fatigue helps end users determine optimal design options, which in turn helps save material cost. By working in close collaboration with the Testing Team to reduce the number of physical prototypes, the R&D Team is able to achieve first-time-right designs.

Matching the quality of other global players through focus on new product development, innovation and research & development; Sharda Motor Industries Ltd. is able to expand its footprint in the domestic and international supplier markets.

“After evaluating many CAE technologies, Sharda Motor R&D selected MSC Software’s simulation solutions including [MSC Nastran](#) and [MSC Fatigue](#) as its main CAE platform,” said Dr. Sivanandi Rajadurai, Head - Research & Development, Sharda Motor Industries Ltd. “By applying MSC’s solutions, the company is able to perform exhaust system Noise Vibration Harshness (NVH) performance calculations, dynamic analysis and durability analysis in order to validate the system performance under road excitation and engine excitation. With the use of MSC Fatigue, the company is able to predict field failures on exhaust components and develop solutions to minimize failure and the number of physical prototypes.”

“It is crucial that leading Automotive Suppliers adopt virtual simulation techniques to get their design right with fewer physical prototypes and testing,” said Eric Favre, VP – APAC at MSC Software. “In this case, it was important for Sharda Motor Industries to accurately predict the performance of their exhaust systems. The key to building confidence in virtual simulations is through reliability and accuracy of the simulation results. We are glad that Sharda Motor Industries has established the confidence in virtual simulation through our solutions and made it a part of their Virtual Product Development process.”

About Sharda Motor Industries Ltd, R&D

Sharda Motor is the market leader in manufacturing of exhaust systems, catalytic converters, independent front suspensions, seat frames, seat covers (two wheelers & four wheelers), soft top canopies, and more. Sharda Motor believes that its responsibility is to satisfy all of its customers by meeting their needs promptly and accurately and maintaining the highest quality standards. There must be equal opportunity for development, advancement and growth. Sharda Motor has state of the art manufacturing facilities with continuous focus on new product, innovation, technology advancement,

and research and development. For additional information, please visit www.shardamotor.com

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Synopsys' Virtualizer Speeds Software Development and Enhances Design Enablement for Systems Based on the Infineon AURIX Microcontroller Family

26 June 2012

Synopsys, Inc. today announced that Infineon Technologies AG has used Synopsys' [Virtualizer™](#) tool set to deploy virtual prototypes of their AURIX microcontroller-based systems, enabling early software development and customer engagement prior to silicon availability. The AURIX virtual prototype, a fast, functional model of the AURIX multicore microcontrollers, is now an integral part of the suite of development tools provided by Infineon to accelerate its customers' development and deployment of real-time embedded software.

"Virtual prototypes are an important tool for addressing the increasing software complexity in automotive electronic systems, and partnering with Synopsys ensures that Infineon and our customers will have access to market-leading virtual prototyping technology," said Axel Hahn, senior director of the Microcontroller Powertrain Application Line at Infineon Technologies AG. "Using Synopsys' Virtualizer to create the AURIX virtual prototypes, we were not only able to accelerate our internal software development, but also provide an early target for our customers to begin their system development activities and provide early feedback on our new architecture. With access to virtual prototypes as part of the AURIX development tool suite, our customers can now rapidly integrate this technology into their current software development and testing processes."

The new Infineon AURIX family features a multicore architecture with support for up to three independent 32-bit TriCore processor cores, providing a scalable set of performance options. The high performance and embedded safety and security features of the AURIX microcontrollers enable them to be used for a wide range of software-rich automotive applications such as engine and transmission control, braking systems, power steering systems, chassis domain control, airbags and advanced driver assistance systems. Synopsys' Virtualizer was an enabling technology for Infineon, not only for the development of the microcontroller abstraction layer and the software tool chain for AURIX end users, but also to enable Infineon to engage customers early in their own product development cycles and receive valuable customer feedback. The Infineon-supplied AURIX virtual prototype greatly enhances the software debug and analysis capabilities available to software development teams at automotive Tier 1 and OEM companies, accelerating product design and test cycles. AURIX virtual prototypes can also be used to create virtual Hardware-in-the-Loop (HIL) testbenches. Virtual HIL simulation enables system validation teams to increase the scope of their testing through fault injection and extended code coverage, thereby reducing development costs, accelerating time-to-market and increasing product reliability.

"Our collaboration with Infineon enables automotive manufacturers and their Tier 1 suppliers to enhance their development, integration and validation activities associated with the growing software content in

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modern cars," said John Koeter, vice president of marketing for IP and systems at Synopsys. "Virtual prototypes based on Synopsys' Virtualizer solution offer unique visibility into how the software behaves within the ECU, delivering unparalleled debug efficiency to AURIX MCU users."

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Systems on Silicon Manufacturing Company Selects Synopsys' Proteus LRC

27 June 2012

Synopsys, Inc and Systems on Silicon Manufacturing Company (SSMC), a Singapore-based joint venture of NXP Semiconductors and Taiwan Semiconductor Manufacturing Company Ltd., today announced their adoption of Synopsys' [Proteus LRC](#). SSMC has deployed Proteus LRC in their production and development flows for post-OPC lithography verification to identify critical manufacturing hotspot locations that are sensitive to process variation and susceptible to increased yield loss. The hotspots identified by Proteus LRC are fixed prior to committing a design to manufacturing, thereby improving yield ramp, reducing overall development time and resulting in a more reliable process for bringing new products to market.

"This tool enables our design support service team to effectively support our customers during their product development and design validation flow. With Proteus LRC integrated in our chip finishing flow, SSMC is able to consistently and reliably identify manufacturing hotspots early in the prototype tape out phase, when corrective action is most feasible," said Dhruva Kant Shukla, director for product & test engineering at SSMC. "With deploying Proteus LRC, we are better equipped to deliver our innovative processes in a more robust and reliable way as we progress to smaller technology nodes for specialty wafers required for high performance mixed signal applications."

Proteus LRC delivers check algorithms and models to predict the manufacturing process and identify areas in a layout that are not meeting the design intent or are very sensitive to process variation. For easy deployment, Proteus LRC uses the same industry-proven Proteus compact models and Synopsys® [Sentaurus Lithography](#) rigorous models used for optical proximity correction (OPC) and process development. For example, resist top loss and footing are more prevalent at leading-edge nodes and can result in issues during the etch process and ultimately yield loss. Proteus LRC efficiently identifies these areas where resist top loss or footing will occur by using the 3D predictability of these models to provide unique insight into the feature profiles.

Proteus LRC is built on the Proteus engine and integrated into Synopsys' [Proteus](#) Pipeline Technology, enabling a single-flow solution from design tapeout to mask fracture. The Pipeline delivers concurrent processing at all stages of the mask synthesis and fracture flow to minimize I/O time for efficient handling of large terabyte datasets encountered at leading-edge technology nodes. The Proteus engine provides an industry-proven platform that is highly scalable to hundreds, even thousands, of CPUs. This enables control of turnaround time while maintaining the lowest cost of ownership through the use of standard x86 processor cores.

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"Proteus LRC consistently delivers industry-leading accuracy that enables companies like SSMC to commit their designs to production with the confidence of knowing they are free of critical manufacturing hotspots," said Howard Ko, senior vice president and general manager of the Silicon Engineering Group at Synopsys. "This accuracy and the low cost of ownership have made Proteus LRC the lithography verification solution of choice at leading semiconductor manufacturers worldwide."

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TUI Nordic/Fritidsresor and Technia Teams up to Reinvent the Product Creation Process for the Travel Industry

26 June 2012

Technia, Addnode's subsidiary and supplier of solutions for Product Lifecycle Management (PLM), has signed an agreement with TUI Nordic/Fritidsresor.

Technia will provide TUI Nordic/Fritidsresor with a PLM solution based on the ENOVIA PLM system from Dassault Systèmes. The PLM solution will enable TUI Nordic to speed up the product creation process for their charter business while improving the quality and reducing costs.

"TUI Nordic has decided to invest in a PLM solution in order to reinvent our product creation process for the Charter business. Technia will be our partner in this journey to create a better travel offering and experience for our clients", says Tor Claussen, Director of Product, Content and Aviation at TUI Nordic.

"Being able to work with industry leaders as TUI Nordic is truly a strategic win for Technia. We transfer our expertise and solutions gained from partnering with other industry leaders to help TUI Nordic improve their offer creation process. This partnership validates our offering comprised of industry knowledge, a strong consulting team, Technia value components and a partnership with Dassault Systèmes", says Jonas Gejer CEO at Technia.

TUIfly Nordic AB, Fritidsresor/Star Tour/Finnmatkat is a tour operator in the Nordic region with 1,2 million customers per year. TEMA, Nazar, My Planet and the airline company TUIfly Nordic are also included in the Nordic Group. The Nordic Group is included in the world's greatest travel company group, TUI Travel Plc.

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Product News

Bricsys Releases New LGS 2D and 3D Constraint Solvers

27 June 2012

Bricsys today announced releases 7.0 of LGS 2D and 6.0 of LGS 3D constraint solver technology components used by developers of engineering application to implement parametric design functions for end users.

The intellectual properties rights of LGS 2D and 3D were acquired from LEDAS by Bricsys in October, 2011. The software development team of Bricsys Technologies Russia, a fully owned subsidiary of Bricsys NV and led by Dr. Dmitry Ushakov, continues the development of the state-of-the-art constraint solving technology currently embedded into dozen engineering applications including Bricscad V12.

“By releasing new versions of LGS 2D and 3D constraint solvers with many new functions we demonstrating our commitment to supporting existing customers of this amazing technology, which started to find more new customers after the recent acquisition,” said Erik De Keyser, CEO of Bricsys. “At the same time, we intensively use this technology to deliver new advanced functions for Bricscad users.”

LGS 2D version 7.0

LGS 2D constraint solver serves as a computational engine for parametric drawing and sketching. Based on a combination of advanced decomposition methods and a reliable non-linear solver, LGS 2D solves drawings with thousand geometric and dimensional constraints in less than a second.

Version 7.0 of LGS 2D constraint solver contains several improvements in processing curve objects. LGS 2D supports a wide range of curve objects, including analytic curves (circles, ellipses, NURBS) and user-defined parametric curves. Version 7.0 introduced a new function for evaluation of points on curves, tangent and curvature vectors for an analytic curve. Each constraint with curves uses help parameters to specify the parametric value of a point on a curve. With version 7.0 the values of help parameters are computed automatically when a constraint is created.

Other improvements of LGS 2D 7.0 aim at helping application developers: now it is possible to automatically compute orientation/alignment constraint flags from a sketch and specify the name for a journal file. Version 7.0 also fixes several problems in unnaturalness, performance and robustness reported by our customers.

LGS 3D version 6.0

LGS 3D is the right choice for those who develop assembly design, kinematic simulation and direct modeling applications, because it supports a wide range of 3D constraints and has an extension module for parametric modification of “dumb” geometry (which construction history might be lost in the

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translation from one CAD system to another).

Version 6.0 of LGS 3D introduces new functions aimed at supporting variational direct modeling applications. Users of such applications often move or rotate interactively one or more objects. LGS 3D is able to support this end-user operation by finding the transformations, which do not violate constraints imposed on the objects. LGS 3D Version 6.0 also supports so-called extended transformations, which may include the changes of parameters (radii). This extension allows to solve efficiently constraints on complex fillets. Version 6.0 also delivers significant performance improvement for move under constraints function.

With version 6.0 it is possible to select pre-defined special positions for some tangency constraints. For example, a tangency between a torus and a plane may also assume that their axes are parallel (in that case the torus will tangent to the plane at any point along their common circle). Other predefined cases are for tangency between two torus (their axes are concentric)

The secret of efficiency of LGS 3D (which is able to solve problems with thousands constraints in less than a second) is mainly located in its sophisticated decomposition methods, which split a large initial problem into a set of smaller ones. Version 6.0 contains a lot of new decomposition patterns introduced by analysis of different industrial cases. There are also several important improvements in the non-linear equation solver. Version 6.0 also fixes several problems reported by customers, including some cases with unnatural solutions, which are now solved naturally.

About Bricsys

Through a network of 70 offices on four continents, Bricsys is a global provider of engineering software and software components for 3D modeling. Its product portfolio consists of Bricscad design software; Vondle extended SaaS platform; Bricsys Meeting Point support network; and the newly acquired LEDAS constraint technology. Bricscad is the powerful DWG-alternative CAD platform that enables .dwg-based applications to serve the growing markets of GIS, AEC, mechanical CAD, and civil engineering.

Bricsys products are available in 17 languages, with more languages in development. Every month, the company transparently reports to its customers the status and development of its software products. Wherever they are around the globe and around the clock, customers can communicate support requests directly to the Bricsys support team. Bricsys is a founding member of the Open Design Alliance and thereby contributes to interoperability in the engineering industry.

For more information about Bricsys, contact us through www.bricsys.com.

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Bulk Loader for Windchill from ETRAGE Supports Upload of SolidWorks Models

26 June 2012

ETRAGE LLC, Engineering Software Company, today announced that its Bulk Loader software tool and migration methodology now supports uploading of SolidWorks® parts, assemblies and drawings to Windchill® PDMLink® and Windchill® INTRALINK®.

The Etrage Bulk Loader is a fast and reliable way of migrating, uploading and checking-in a large quantity of CAD data, CAD metadata and documents from a Windows file system into Windchill. It validates against existing CAD files and documents in Windchill and identifies conflicts. It offers easy to use interface so that the process of uploading is done in quick and effective way.

“Data migration is a process that not only involves use of software tools but also a migration methodology. Each migration process is unique just as customer data is unique. Etrage developed migration process methodology and tools that enable customers to prepare their large sets of data for the successful upload into Windchill.” stated Bojan Rapaic, President and Director of Development at ETRAGE LLC.

The Bulk Loader with the Etrage migration methodology provides for an effective process for capturing the entire history for Creo® 1 & 2, Pro/ENGINEER® Wildfire® 4 & 5, AutoCAD® 2010, 2011, 2012 & 2013, NX5® and NX6®, Microsoft Office documents, other types of documents and images and now SolidWorks® 2010, 2011 & 2012, for uploading into Windchill PDMLink or Windchill INTRALINK. Other CAD formats and options can be added upon request.

About ETRAGE LLC

ETRAGE LLC, based in Waltham, MA, is a software development company that focuses on products and services in engineering/design automation and integration, manufacturing automation and data integration. Etrage’s services have been in the areas of automation, customization and integration of 3D solid modeling CAD, PLM, PDM, ERP and MRP systems. ETRAGE can be found on the web at www.etrage.com

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CadFaster Software for Real-time Collaboration of 3D CAD and Building Information Models Now Available in Autodesk Exchange Apps Store

27 June 2012

On the heels of being awarded Best of Show Mobile App for Architects at [The American Institute of Architects](#) (AIA) 2012 National Convention by [Architosh](#), CadFaster today announced the availability of its [CadFaster|Collaborate™](#) plug-in software for Autodesk Revit 2013 in the [Autodesk Exchange Apps Store](#). For previous versions of Autodesk Revit, CadFaster|Collaborate is available on the [CadFaster website](#).

CadFaster|Collaborate is a cloud-based collaboration tool that lets users effortlessly distribute 3D CAD models and Building Information Modeling (BIM) designs for instant review and mark-up with anyone, anywhere, in *real-time*. Available for a [free 14-day trial](#), CadFaster|Collaborate offers unique features such as a walk-through mode with inside point of views of interiors and design details.

“We welcome CadFaster as a participant in the Autodesk Exchange Apps store – the award-winning CadFaster|Collaborate App is a great example of the range of valuable add-ins available to customers from within the design and engineering products they use every day,” said Jim Quanci, director of the Autodesk Developer Network. “CadFaster|Collaborate is an add-in to Autodesk Revit software, offering functionality to Autodesk customers in the industry who rely on Autodesk Revit for their design projects.”

For ultimate portability, the 3D models are highly compressed before they are exported and stored in a cloud database. Architects and designers can even use CadFaster’s free iPad® application to review and share the model with others.

“Our Autodesk Revit customers will love the convenience and one-stop shopping of the Autodesk Exchange Apps store,” said Raimo Kuismin, chairman, CadFaster. “It serves as a portal to the Autodesk Revit software ecosystem, providing access to add-ins such as CadFaster|Collaborate that allow designers to find and immediately download solutions to some of their more pressing design challenges, specifically sharing and marking up models in real time.”

About CadFaster

CadFaster provides its customers with proprietary and innovative software products that enable an ultra-fast 3D collaboration experience in professional 3D applications such as CAD. Based in Oulu, Finland, CadFaster was founded by a team of highly skilled software professionals. The technology development of the company’s newest product, CadFaster|Collaborate, began in 2009. For more information, please visit <http://www.cadfaster.com/>, join CadFaster’s Facebook page or follow the company on Twitter @CadFaster. Email any inquiries to sales@cadfaster.com.

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CIMdata PLM Industry Summary

CGTech and DP Technology Announce Direct Interface between VERICUT and ESPRIT

22 June 2012

CGTech and DP Technology are pleased to announce the availability of the ESPRIT®-to-VERICUT® Interface. The interface launches VERICUT NC verification, machine simulation and optimization software from within ESPRIT 2012 CAM software.

“Accurately simulating the CNC machine and material removal with the actual NC code that will run on the machine is a requirement for the complex CNC machines and machining processes supported by ESPRIT users,” said CGTech’s Product Marketing Manager Bill Hasenjaeger. “Working together, the ESPRIT/VERICUT combination provides a comprehensive solution to help prevent errors from being forwarded to the shop floor -- avoiding material scrap, machine damage, broken tools and wasted time.”

"We are pleased to partner with CGTech and provide our customers with a link to VERICUT from ESPRIT, which provides easy access to VERICUT NC verification and machine-simulation software," said David Bartholomew, technical marketing specialist for DP Technology, maker of ESPRIT CAM.

The ESPRIT-to-VERICUT Interface tightly integrates the two programs to help users create the most accurate and efficient NC programs possible. The tools, fixtures and stock material created in ESPRIT are seamlessly transferred into VERICUT, which is automatically set up in the correct orientation and coordinate system to allow simulation to start immediately. Both the kinematics and CNC control of each machine tool are accurately modeled and defined inside VERICUT, ensuring the checks mirror the exact behavior of the CNC machine.

By simulating CNC programs on a computer without using the actual machine tool, ESPRIT users are able to realize significant savings and efficiencies by reducing machine cycle time, improving work quality and maximizing throughput. Possible programming errors are identified sooner without putting the actual machine tool at risk.

ESPRIT is a high-performance computer-aided manufacturing (CAM) system for a full range of machine tool applications. ESPRIT delivers powerful full-spectrum programming for 2–5 axis milling, 2–22 axis turning, 2–5 axis wire EDM, multitasking mill-turn machining and B-axis machine tools, and high-speed 3- and 5-axis machining.

VERICUT is an advanced software program that interactively simulates and displays the material removal process of an NC program. Using VERICUT, NC programmers can verify the quality and accuracy of the NC Program. VERICUT also shows full 3D simulations of entire NC machine tools to check for collisions.

About CGTech

Headquartered in Irvine, California CGTech specializes in numerical control (NC/CNC) simulation,

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verification, optimization and analysis software technology for manufacturing. Since 1988 CGTech's product, VERICUT® software, has become the industry standard for simulating CNC machining in order to detect errors, potential collisions or areas of inefficiency. With offices worldwide, VERICUT software is used by companies of all sizes, universities/trade schools, and government agencies. For more information, visit the CGTech website at cgttech.com, call (949) 753-1050, or email info@cgttech.com

About DP Technology

DP Technology maintains its worldwide headquarters in Camarillo, Calif., and product development teams in California, Berlin, Germany, and Florence, Italy. Sales and support operations are located in Europe, Asia, and North and South America. For additional information about DP Technology and ESPRIT, call +1-805-388-6000, send an e-mail to ESPRIT@dpotechnology.com, or visit the company Web site at www.dpotechnology.com.

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Delcam to Launch New Milling Options in FeatureCAM at IMTS

27 June 2012

Delcam will launch the 2013 release of its FeatureCAM feature-based CAM software on booth E-3222 at the IMTS exhibition to be held in Chicago from 10th to 15th September. This will offer a new series of options for three-axis milling and enhancements in five-axis machining, plus improvements in the turning and mill-turn modules.

FeatureCAM was the world's first feature-based programming software when it was launched in 1995. Constant development since then has ensured that the system has retained its leadership in programming speed and ease of use, while an increased range of strategies has been added to provide more efficient toolpaths giving greater productivity on a wider range of machines.

The main change to the 2013 FeatureCAM product family has been the introduction of three levels of 3D machining functionality. FeatureMILL 3D Lite offers single-surface machining with a basic range of strategies and so provides an introductory product for companies moving into 3D machining for the first time.

FeatureMILL 3D MX provides a greater number of strategies, including spiral finishing, flowline finishing and rotary machining, support for multiple-surface machining and automated feature recognition. It is aimed at companies with conventional machine tools and those that are machining softer materials.

FeatureMILL HSM also contains all of the options for rest machining, such as pencil machining and corner clearance, and high-speed machining, including trochoidal machining and Delcam's patented Race Line Machining. It maximises the benefits of any investment in high-speed mills with strategies

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that maximise machine productivity while protecting the part, machine and cutter from excessive wear.

FeatureCAM HSM also includes a number of new strategies. Step cutting has been added within area clearance to remove large terraces that can be left on the part when using deeper roughing cuts. FeatureCAM will now produce extra toolpaths that step back up the terrace with the existing large tool, adding extra cuts at intermediate levels. This results in more material being removed, using the same tool within the same toolpath.

Automatic splitting of finishing between steep and shallow areas of the part has been available in FeatureCAM for a number of releases. This option has been enhanced with the ability to use the scallop height to control the stepover. Using this value rather than setting a constant stepover distance gives better control of the surface finish.

Both roughing and finishing strategies now incorporate an “area filter” to remove small enclosed pockets within the part from the toolpath. Any attempt to cut these areas risks damage to the tool, even though it is mathematically possible to remove the material.

New five-axis strategies available in FeatureCAM 2013 include flowline machining between two curves, pencil machining and corner re-machining. These options for simultaneous five-axis machining allow a better surface finish to be achieved as well as ensuring access to more areas within the part in a single set-up.

New options have also been added to give smoother five-axis machining. A new look-ahead capability will remove any sudden tool-axis changes during automatic collision avoidance and, instead, ensure that a smooth transition takes place. In addition, FeatureCAM now offers the ability to smooth the Azimuth and Elevation axes independently and so remove excessive five-axis movement. These options stabilise the rotary axis movement by maintaining a fixed tool axis as far as possible, thus replacing constant five-axis movement with a series of 3+2-axis segments having full five-axis transitions between them.

A number of enhancements have been added to FeatureCAM’s turning and mill-turn modules. Definition of the initial stock and part alignment has been improved, making it more similar to the set-up process for milling, support has been added for semi-finish canned cycles and curves of revolution can now be recognised from STL models. A new method has also been introduced allowing b-axis rotary milling to be carried out on features that would otherwise require the use of excessively long cutters.

The options for multi-spindle, multi-turret machines have been improved by fully integrating part transfers into the FeatureCAM output. Simulation and post-processing of these operations is also supported. In addition, the handling of synchronisation points has been enhanced to simplify the optimisation of the machining sequence between the various elements of the machine.

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Delcam Updates Solid Doctor for CAD Data Repair

28 June 2012

The 2013 release of Delcam's PowerSHAPE CAD software, which is due for release next month, will include a major upgrade to the Solid Doctor module for data repair. A demonstration of the new version can be seen at <http://youtu.be/gpsJFH0ANF0>.

The module offers a comprehensive set of tools for the repair of CAD models from all sources, including IGES, STEP and native CATIA files. It can be used to tackle all the common problems that are found when translating low-precision and incomplete data, including gaps and overlaps between surfaces, or duplicated and missing surfaces, and generate a valid, high-precision solid model.

“Users will not see an immediate difference when they open the new version of the Solid Doctor,” admitted PowerSHAPE Development Manager, Ian Watkins. “Most of the changes have been in the background to make the automatic repair tools faster and even more robust. We have also made the recommendations clearer on the actions that need to be taken to solve the different types of problem.”

The Solid Doctor uses a combination of automatic data repair tools, together with the surface creation and editing options that are available from PowerSHAPE. This combination means that simple repairs can be carried out quickly and easily, while more complex problems can be overcome by deleting and replacing the existing surfaces within the model.

The first stage in using the Solid Doctor is to analyse the model to determine the extent of any inconsistency issues in topology or geometry. These errors are labelled on the model and divided into separate categories. For each category or class of inconsistency, Solid Doctor recommends the most appropriate course of action, including a possible automatic fix.

The user then applies the automated repair sequence. Each corrected issue has its label changed from red to green as it is repaired. The repairs can be inspected individually to ensure that the results are as required or the whole model can be checked again to highlight any further inconsistencies.

The second repair stage involves using Delcam's unique trim region editing tools to correct larger issues that require manual repair, such as mismatches between the edges of the various surfaces within the model. These include direct editing options for the trim boundaries, which allow very quick and flexible adjustment of the surface edges to overcome errors in the model.

For the more serious problems that remain, it will usually be necessary to generate replacement surfaces in the affected area. This can be done easily using PowerSHAPE's Smart Surfacing technology. The user simply deletes the existing surfaces and sketches around the area to be repaired. PowerSHAPE will then analyse the boundary and suggest the most appropriate type of surface to fill the space. Tangency can be maintained with the surrounding surfaces if required. If the user is not happy with the initial

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selection made by the software, he can run through alternative solutions until he is satisfied with the result.

Once the user is happy with the quality of the repaired surfaces, they are incorporated back into the solid model automatically. This process continues until all the inconsistencies have been resolved. Giving the user total control over how the part is repaired allows even poor quality or badly-damaged data to be repaired quickly and efficiently.

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Design Data Named an Autodesk AEC Industry Partner

27 June 2012

Design Data, a provider of 3D detailing and Building Information Modeling (BIM) software, announced that its SDS/2 Connect add-in is now fully compatible with Autodesk Revit Structure 2013. The 2013 version of SDS/2 Connect includes engineering, productivity and search enhancements, as well as various software improvements.

"The release of SDS/2 Connect 2013 allows those users who have upgraded to the most recent version of Revit Structure to continue using an established, code-based connection design tool in the BIM environment they are familiar with," said Doug Evans, Design Data's vice president of sales. "With SDS/2 Connect and Revit Structure, we are extending intelligence throughout the design phase and into manufacturing, which helps promote better communication, shorter timelines and reduced cost."

SDS/2 Connect 2013 features additional connection types, adding to the repertoire of existing connections the software automatically and intelligently designs. To further increase productivity, SDS/2 Connect can also now automatically apply shear loads imported from various analysis software packages.

About Design Data

Headquartered in Lincoln, Nebraska, since 1981, Design Data produces innovative BIM software for the steel industry's engineering, detailing and fabrication sectors, and is an Autodesk AEC Industry Partner. SDS/2 software products provide automatic detailing, engineering information, fabrication data and much more, reducing the time required to design, detail, fabricate and erect steel. For additional information, visit <http://www.sds2connect.com>.

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New Feature in Altair's RADIOSS Solver Slashes Computation Time for Eigenvalue Analysis

28 June 2012

Altair Engineering, Inc., today announced the availability of an automated multilevel substructuring eigenvalue solver ([AMSES](#)) that dramatically cuts the time required to compute eigenvalues for analysis in noise, vibration and harshness (NVH) simulations. AMSES has been released as an update to [HyperWorks 11.0](#), Altair's suite of computer-aided engineering software tools, and is part of the [RADIOSS](#) finite-element solver. It is an especially important innovation for the automotive and aerospace industries, where engineers need the capability to optimize larger models and manage full vehicle simulation. In addition, AMSES is provided under the standard Altair HyperWorks license with no additional cost or HyperWorks Unit draw.

AMSES, which runs on both the Windows and LINUX operating systems, computes eigenvalues for fully connected as well as unconnected structures in NVH simulations while dramatically reducing the analysis time. For example, Van-Rob KIRCHHOFF Automotive, a tier-one automotive supplier headquartered in Aurora, Ontario, worked with Altair to apply AMSES to the design of instrument panel structural assemblies. For one phase of the work, the run time for calculating eigenvalues was reduced from its previous 3.75 hours to just half an hour on an eight-core PC.

"As we continue to be more closely engaged with our automaker customers in the earliest of their design phases, it will increasingly involve further CAE collaboration and interaction with far more complex models and shorter time frames to work within," said Van-Rob CAE Supervisor Sacheen Bekah. "Using AMSES we have seen tremendous improvement in computing time and with no additional cost. We are extremely pleased with the product, Altair's tech support, and having these kinds of tools and others within the HyperWorks product suite at our disposal."

While for extremely large NVH simulations where AMSES can reduce day-long run times to just hours, the real advantage is in optimizing a vehicle component or system. Engineers may need as many as 20 iterations, requiring about 3.5 hours each. AMSES reduces that run time to just 30 minutes each—an exponential time savings. This allows the optimization to be completed in a single day.

"The new AMSES eigensolver is a key technology that shows again Altair's commitment to deliver solutions that drive the product development process through simulation," said Detlef Schneider, Senior Vice President of Altair's Solver Products. "AMSES provides a significant speedup in solution time, which enables users to run studies and numerical optimizations in the same amount of time it once took to run just one analysis in the past, and finally deliver optimized products in terms of performance and robustness in shorter time."

AMSES is another advancement in Altair's development of the most sophisticated multi-physics solver platform in the industry. RADIOSS in HyperWorks 11.0 can perform new types of analyses, including response spectrum, complex eigenvalues, and pre-stressed normal modes, as well as material and geometric non-linear implicit analysis. RADIOSS now provides a breakthrough in performance with an advanced mass-scaling technology and a new multi-domain implementation that increases the speed and accuracy of detailed explicit simulation.

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OpenText Boosts Governance & Information Access for Microsoft® SharePoint® Deployments

26 June 2012

OpenText™ today announced the availability of [OpenText Application Governance and Archiving \(AGA\) for Microsoft® SharePoint® 10.5](#), which provides SharePoint users with advanced, integrated, complete content lifecycle solutions for managing SharePoint sites and mission critical business information across an enterprise.

OpenText AGA 10.5 offers businesses powerful new features including:

- **Simplified navigation of large content volumes** - Faceted browsing lets users leverage metadata to navigate through vast volumes of content more efficiently so they can easily access information in OpenText Content Server through SharePoint. Container specific views also allow users to view context-relevant metadata.
- **Enhanced Archiving and Compliance** - Customers can take advantage of significant refinements in OpenText's ability to archive SharePoint content, whether it be long-term archiving of SharePoint lists or support for more complex data types. This improves the overall flexibility, performance and manageability of access to specified content.
- **Stronger Integration with OpenText xECM for SAP Solutions** - Enhanced support for OpenText Extended ECM for SAP® solutions brings the bi-directional access of content to users of SharePoint and SAP software. End users can now leverage work done in SAP workspaces through SharePoint, or extend access to content and projects created in SharePoint through an SAP workspace.
- **Support for Microsoft FAST Search for SharePoint** - Users can now search and index Content Server content quickly and easily using Microsoft's FAST Search technology whether it is full text or document metadata.

"OpenText has once again raised the bar by offering the most advanced and complete solution for SharePoint integration for enterprise information governance," stated Lubor Ptacek, Vice President, Strategic Marketing and General Manager, Microsoft Solutions at OpenText. "By integrating with SAP solutions and providing our customers with the ability to search and navigate through vast volumes of data, we are taking yet another step in our strategy towards helping customers get more value out of their information and their SharePoint deployments."

Organizations in all industries and vertical markets depend on Microsoft SharePoint for its ability to connect people and the content they need to succeed through a simple, easy-to-use interface. OpenText AGA 10.5 helps organizations to drive SharePoint adoption while managing the growth of SharePoint sites to ensure that broader compliance and archiving policies are met, provide open access to all enterprise content, and reduce ongoing administration and storage costs. By providing access to content from all enterprise sources directly from within SharePoint in the context of business applications and processes, it also helps to improve user productivity. This ultimately increases the value of content by giving organizations a comprehensive, well-managed, and long-term approach to preservation of corporate memory and sound information governance.

OpenText is a global leader in developing enterprise-class content and process solutions for the Microsoft SharePoint ecosystem, offering solutions that span archival, governance, document capture, faxing, records management, business process management, case management, and more. Together with Microsoft, OpenText helps enterprise customers improve security, boost innovation and gain a competitive advantage while reducing costs through new efficiencies. A Microsoft Gold Certified partner, OpenText has won numerous Microsoft partner awards, including 2011 ISV Partner of the Year. To learn more about OpenText solutions for Microsoft SharePoint go to www.bettertogethercentral.com.

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Powerful New Engine Simulation Capabilities in STAR-CD v4.18

27 June 2012

CD-adapco is pleased to announce the release of v4.18 of STAR-CD and es-ice IC Engine simulation software. V4.18 brings powerful new capabilities in both the preprocessing and solver environments. In es-ice, the user is now able to automatically generate 2-dimensional templates for the in-cylinder mesh, substantially speeding up the time to generate an optimum 3-dimensional mesh, and to be able to refine or coarsen the mesh with a single command. This is particularly powerful for advanced studies, such as comparing RANS with LES calculations where different mesh densities are desirable. Additional options are now available for the spray-adapted mesh which can be used to enhance accuracy in spray simulations.

New options are available in STAR-CD for including detailed chemistry within combustion calculations. Together with our partner DigAnaRS, it is now possible to use detailed chemistry mechanisms within DARS to either generate libraries directly for the ECFM-3Z combustion model or to use those mechanisms with the DARS-TIF flamelet-based model. This is an extremely powerful capability and, although CD-adapco and DigAnaRS will provide an ever-increasing range of chemistry mechanisms, either the user or a 3rdparty are also able to use their own chemistry mechanisms within this framework. Thus, users' proprietary chemistry mechanisms for any fuel can be used with the structural flame models available in STAR-CD.

An additional advantage of the new detailed chemistry option is that E-fuels, B-fuels and dual-fuel engines can be simulated correctly from fuel injection, evaporation and mixing through to combustion with full detailed chemistry.

There are also substantial enhancements to both the ECFM-CLEH combustion model and the ELSA spray model, both of which potentially offer a superior approach for diesel combustion.

Other modeling enhancements include improvements to the spray impingement model to take better account of wall temperatures above the liquid saturation temperature and Leidenfrost effects and options to model real gas compressibility using appropriate equations of state. Both of these enhancements address trends in engine design where spray-wall impingement and higher cylinder pressures are prevalent.

In addition to the release of STAR-CD v4.18, the Knowledge Base has also been updated to reflect any change in behaviour over previous versions. Details can be found at CD-adapco's Customer Service Centre website <https://support.cd-adapco.com>. Further information for users on how to use this or about specific changes can be obtained by contacting your DSE.

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PROCAD Celebrates Launch of PapriCAD 3D Piping Design Software

27 June 2012

PROCAD Software announced the release of its newest product, [PROCAD PapriCAD® 3D](#). The scalable and flexible 3D modeling solution is built on PROCAD's database-powered platform that comes with Autodesk AutoCAD®. PapriCAD 3D leads to higher quality projects of all sizes by improving information sharing and engineering content management, reducing risk and facilitating more effective project management.

“Up to now, this level of advanced plant design software has been the domain of large software companies offering expensive and IT intensive solutions that price out small and medium sized businesses. PapriCAD 3D represents a breakthrough in affordability for companies of any size,” said Zaia Abraham, president, PROCAD Software. “PapriCAD 3D merges CAD with real-time SQL database connectivity to enable high performance enterprise-wide and multi-user design environments. With its ease of setup and use, PapriCAD 3D is suitable for every 3D plant project.”

PapriCAD 3D was released as a private beta on May 7, 2012 for Microsoft® Windows® platforms. “As a continued user of the [PROCAD] 2D Piping Suite, the transition to the PapriCAD 3D software was seamless...The security levels present are excellent...Users can be up to speed in no time at all,” said Trevor Canuel, Piping Design & CAD Instructor, SAIT.

PapriCAD 3D enables Owner Operators (OOs), Engineering Contractors (EPCs) and energy companies to achieve successful piping and plant installations more quickly, more accurately and at reduced costs with key features such as easy set-up and deployment, intelligent spec-driven designs and database-powered platform. PapriCAD 3D can be implemented standalone or network installation.

PapriCAD 3D Key Features:

- PapriCAD 3D User Interface (UI) – An intuitive, easy to navigate interface allows users to get up and running quickly
- Intelligent Rules-Based Design – Costly design errors and project delays are eliminated with automatic background compliance checks, colored cones at connection points, robust materials management and more
- Database-Powered on SQL Server™ – All project data is centrally stored and accessible across global teams for protection against data loss and efficient team collaboration

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- Built-In AutoCAD® – Comes with AutoCAD so users can store and share files in the industry standard AutoCAD DWG™ file format

About PROCAD Software

For over 20 years, PROCAD Software has been supporting the Oil and Gas industry with innovative piping and plant design solutions. EPCs, owner-operators and energy companies involved in the design and construction of Oil and Gas facilities have used and continue to rely on PROCAD piping design software. For more information about PROCAD, please visit <http://www.procad.com>.

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Service Pack 1 for ZW3D 2012 CAD/CAM Adds Over 180 Enhancements

26 June 2012

ZWSOFT today made available ZW3D 2012 Service Pack 1 to customers, who will enjoy 30 new functions and over 180 improvements to existing 3D CAD/CAM features.

New Features and Improvements:

Service Pack 1 advances ZW3D 2012 in the areas of visualization, data exchange, design, CAM, and post-processing. Highlights include the addition of many more post-processors for CAM operations, curve construction based on equations, and better support for AMD/ATI graphics boards.

- Improved visualization and collaboration allows two copies of ZW3D to run at the same time. The new type of PDF is added and ZW3D file can be saved as PDF format. For better visualization, lines under one pixel are now thickened automatically, dimension elements have more options for colors customization, and support for graphics boards from AMD is improved.
- More efficient design is made possible through new equation-based curves that can be generated from more than 70 supplied equations. Curves can be easily defined by three different coordinate methods, and a friendly interface makes it easy to modify parameters and equations of the curves. Patterns now support punches, and can be accurately applied to closed curves and surfaces. Additionally, there are many more improvements to direct edit, filleting, plane alignment, and in the areas of 2D drafting and sketching.
- Enhanced support for manufacturing includes easier geometry alignments, improved parting lines from silhouettes, and more split face options. For turning operations, calculations are speedier, collision avoidance is substantially improved, dual spindles are supported, and much, much more. Additions to 2X milling include external helical cuts, new tap operations, and rough depths overrides. In 3X milling, ZW3D now supports non-ball reference tool improved undercut operations, and better tool-path corner rounding.
- Added post-processors for 2-3X machining (HNC-21_22M) and many more 5X post-processors, including GSK25i, SINUMERIK840D, and heidenhain530.

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SMIC and Synopsys Extend 40nm Low Power Capabilities with Reference Flow 5.0

26 June 2012

Synopsys, Inc and Semiconductor Manufacturing International Corporation today announced availability of version 5.0 of their 40-nanometer (nm) RTL-to-GDSII reference design flow. This production-proven flow incorporates a broad range of automated low power and high-performance capabilities through Synopsys' entire tool suite, giving SMIC customers the differentiated performance and power results needed in today's chip designs.

The reference flow is the result of collaboration between SMIC and Synopsys Professional Services, leveraging Synopsys' experience and expertise in advanced chip design methodologies. The reference flow features new high-performance design techniques, including automated clock mesh synthesis, to increase performance and responsiveness of a system on chip (SoC), plus a gate array engineering change order (ECO) flow that allows a designer to quickly achieve design closure without having to start from scratch with a redesign. The reference flow also includes support for low power techniques such as power-aware clock tree synthesis, power gating and physical optimization, driven by the IEEE 1801 low power design intent standard.

"Designers require a reference flow that addresses both high-performance and low power requirements," said Tianshen Tang, SMIC's vice president of design service. "With the release of SMIC-Synopsys Reference Flow 5.0, we are enabling IC designers to accelerate their designs into manufacturing through the combination of SMIC's 40nm process technology and Synopsys' technology-leading design solutions."

"Customers are looking for tools and methodologies that allow them to deliver designs that meet their unique performance goals and requirements," said Rich Goldman, vice president of corporate marketing and strategic alliances at Synopsys. "Through our collaboration with SMIC, we are able to provide our mutual customers a proven reference flow and immediate access to both high-performance and low power design solutions tailored for SMIC's 40-nanometer low power process."

About SMIC

Semiconductor Manufacturing International Corporation ("SMIC"; NYSE: SMI; SEHK: 981) is one of the leading semiconductor foundries in the world and the largest and most advanced foundry in Mainland China, providing integrated circuit (IC) foundry and technology services at 0.35-micron to 40-nanometer. Headquartered in Shanghai, China, SMIC has a 300mm wafer fabrication facility (fab) and three 200mm wafer fabs in its Shanghai mega-fab, two 300mm wafer fabs in its Beijing mega-fab, a 200mm wafer fab in Tianjin, and a 200mm fab under construction in Shenzhen. SMIC also has customer service and marketing offices in the U.S., Europe, Japan, and Taiwan, and a representative office in Hong Kong. In addition, SMIC manages and operates a 300mm wafer fab in Wuhan owned by Wuhan Xinxin Semiconductor Manufacturing Corporation.

For more information, please visit www.smics.com

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Sunglass Unveils New API That Integrates with Major CAD Tools and Connects to Storage Capabilities to Fuel Next Generation of 3D Collaboration

28 June 2012

Today Sunglass, the cloud-based ecosystem for democratized sharing, collaboration and creation of 3D content, is announcing an API for direct integration to major computer-aided design (CAD) tools SolidWorks, SketchUp, Processing and Rhino, as well as easy integration from Dropbox and Box storage. These software hooks will simplify collaboration and further drive Sunglass, now officially open to the public, towards creating a massive wave of crowd design.

Software hooks into major CAD players SolidWorks, Rhino, SketchUp, Processing and storage utilities Box and Dropbox, powered by the Sunglass API, create a seamless path for importing 3D models from desktop software directly into Sunglass, making it even easier for users to add to projects or initiate new collaborative sessions in the cloud. The API benefits developers too, by giving them a very simple way to create a plugin from any CAD tool directly into the Sunglass Stage.

After installing plugins, users will be able to upload models to Sunglass from within these desktop applications to instantly view, annotate and edit with anyone, anywhere in the world.

“Sunglass’s mission is to make 3D design fast, easy and affordable,” says co-founder Nitin Rao. “We’ve seen enormous interest in Sunglass since our launch last month and today’s API is a direct response to the feedback we’ve gotten on what designers want in a next generation collaboration tool. We’re excited to see what you, the designer, build on it.”

Interested developers can find out more about the Sunglass API here: <http://api.sunglass.io>
Create your world through Sunglass: <http://sunglass.io>

About Sunglass:

Sunglass is a cloud-based environment that enables designers to collaboratively build the innovative products, structures and cities of the future. Democratizing 3-D design, Sunglass gives any designers the ability to turn today’s ideas into tomorrow’s realities. Founded in May 2011, Sunglass is based out of San Francisco.

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CIMdata PLM Industry Summary

TFTLabs Announces Free JSON3D Gallery, View and Share your 3D CAD Models on the Web for Free

28 June 2012

TFTLabs S.A.S, announces today JSON3D Gallery, <http://json3d.tftlabs.com>: 100 % web-based gallery to view and share Catia, Solidworks, JT or Pro/Engineer native files.

With the free JSON3D Gallery, just upload a native 3D file and start visualize and share it from a Web browser or from a Mobile/Tablet. JSON3D Gallery does not require ANY software or plug-in installation on your desktop computer. Just sign-in and share JSON3D assets as simple URLs that you can freely embed into emails, social networks or Web pages.

The JSON3D file format behind JSON3D Gallery is pure JSON (JavaScript Object Notation), Part of ECMAScript/Javascript ISO Standard which is the only standard for Web applications used in conjunction with HTML5. It is open (textual), customizable, optimized for compressed Web transmission/usage and compatible with Mobile/Tablet. It was designed on purpose for web and mobile and allows great performance with low resource footprint, even with big size data.

“Users who care for long-term access, usability and extensibility for their 3D data are eager to use simple open file formats instead of traditional awkward modeling or visualization formats. With JSON3D, we are very excited to offer a new possibility to the 3D community of users, combining this openness with the power of the Web. JSON3D Gallery is a great way to start using and adopting the technology for free.” says Francois Chretien, TFTLabs CEO and Chief scientist.

JSON3D Gallery is accessible from various desktop operating systems and browsers (such as Google Chrome, Firefox, Internet Explorer or Safari).

JSOND Gallery is also accessible from your Mobile/Tablet through the free Android application TFTPad available on Google Play at <https://play.google.com/store/apps/details?id=tftlabs.web.mobile>.

TFTLabs line of products and technologies is focused on 3D communication and interoperability on the Web. JSON3D Gallery is part of TFTLabs products which are available on various operating systems/browsers and mobile devices. TFTLabs products work directly on 3D data from all native or generic CAD formats (more than 20 formats) up to their latest revision.

The whole technology behind the products is owned by TFTLabs, whose key people have a unique experience in 3D CAD interoperability since 20 years.

About TFTLABS SAS:

TFTLabs SAS is a company dedicated to 3D Open solutions for Cloud Computing in the Manufacturing Market founded by CAD and Interoperability Veterans.

For more information, visit our website www.tftlabs.com

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Vectorworks Cloud Services Now Offers Five Times Greater Storage Capacity

21 June 2012

Nemetschek Vectorworks, Inc. today announced that Vectorworks Cloud Services now offers users 5 GB of storage capacity. This increase, up from 1 GB, will allow users of Vectorworks® software the convenience of accessing five times more files and projects from any web-enabled device.

"As more and more designers discover the benefits of Vectorworks Cloud Services, they want to take full advantage of the convenience it provides," said Dr. Biplab Sarkar, chief technology officer of Nemetschek Vectorworks, Inc. "We are dedicated to continually improving their experience with the service, and offering greater storage capacity is another step in doing so."

All members of the Vectorworks Service Select software subscription program receive access to Vectorworks Cloud Services and 5 GB of storage capacity.

Through Vectorworks Cloud Services, users of Vectorworks software have the freedom to access and share files and make design decisions from any location. Changes to users' Vectorworks files will be automatically synchronized to their private cloud storage, allowing them to browse, annotate and share their designs from web-enabled devices using the Vectorworks Nomad mobile application.

The service also saves time by freeing up desktop computing power. Vectorworks Cloud Services provides a cloud-based workflow, shifting calculations needed to generate sections, elevations, renderings and Building Information Modeling (BIM) data from the desktop to the cloud, so users no longer have to wait while resources consume their desktop CPUs.

Vectorworks Cloud Services was launched in the United States and Canada on April 2, 2012; in the UK, Ireland, Denmark, Portugal and Spain on May 8, 2012; and in Germany, Austria, Switzerland and Liechtenstein on May 29, 2012. To learn more, please visit www.vectorworks.net/cloudservices.

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