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CIMdata News

CIMdata Announces Date and Location for the Next North American CIMdata PLM Certificate Program, Ann Arbor, Michigan – May 14-18, 2012

14 February 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 Ann Arbor, Michigan from May 14-18, 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 our headquarters location of Ann Arbor, Michigan.”

PLM Certificate Program participants can register online for either the 3-day or 5-day program. This certificate program is available to industrial companies who are considering or implementing PLM, and to PLM technology and service suppliers. 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 <http://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. Twitter: <http://twitter.com/#!/CIMdataPLMNews>

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CIMdata PLM Industry Summary

CIMdata Publishes Industrial Machinery Research; New paper entitled “The Next Industrial Revolution”

15 February 2012

CIMdata, the leading global Product Lifecycle Management (PLM) management consulting and research firm announces a new research paper focused on the global industrial machinery market. Entitled “**The Next Industrial Revolution**,” the research describes the business, product development, and information technology challenges faced by competitors in the industrial machinery market.

Estimated at over \$400 billion in 2011, the global industrial machinery market includes a wide range of segments, including: machine tools; heavy machinery, such as mining and construction equipment; farm machinery; packaging machinery; paper industries machinery; air conditioning refrigeration and heating machinery; printing trades machinery; food products machinery; and textile machinery. Based on data from CIMdata’s annual PLM market survey, industrial machinery is one of the largest markets for investment in PLM-enabling solutions.

While the end use of an industrial machine may vary, the companies in this market share some common problems. Suppliers of these products are under constant pressure to innovate as well as hold to high quality/performance standards and competitive costs. Machines are often designed and made to order, working from a base design. Industrial machines can be complex products involving many subassemblies; electronic, software, and mechanical components; and close tolerances. The manufacture of these products involves complex bills of materials, and a combination of in-house and contracted manufacturing of parts and assemblies. Machine manufacturers have to share product information with their customers as well as their suppliers, as almost no industrial machinery manufacturer builds every component of every machine. Because of the global nature of the industrial machinery business, this sharing and collaboration needs to flexibly support global collaboration.

These products are major capital investments for industrial customers and have long lifecycles. Manufacturers are required to provide clear documentation of maintenance information and in many cases, actually perform the maintenance for their customers. From time to time, upgrade packages can be made available to customers to improve performance without replacing an entire machine. When these upgrades are released, clear design and installation information is essential.

The research focuses on how existing PLM enabling technologies can be used to address three critical problems facing industrial machinery firms:

- Winning Bids Profitably
- Enabling Efficient Business Processes across the Extended Enterprise
- Installation, Commissioning, and Maintenance

Stan Przybylinski, CIMdata’s Director of Research observes: “Over the past thirty years, CIMdata has worked with many industrial machinery companies on their PLM strategies, helping them identify appropriate PLM-enabling solutions to address the issues presented in the paper and other problems. As shown in our market research, industrial machinery companies have collectively invested in PLM but there is much work still to do. The point of the research presented in this paper is that many firms still need to invest to take advantage of new solutions and technologies that are available to expand their PLM implementations and provide additional benefits in product development, installation, commissioning, and services.” “The Next Industrial Revolution” is all about reaping these benefits. Customer quotes and examples from Autodesk help further illustrate how companies are employing

CIMdata PLM Industry Summary

PLM-enabling solutions to effectively address these issues.

“The Next Industrial Revolution” is available to be freely downloaded from CIMdata’s website at http://www.cimdata.com/publications/reports_complimentary/white_papers.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 <http://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; or at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0)495 533 666. Twitter: <https://twitter.com/#!/CIMdataPLMNews>

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Company News

Alcove9 Introduces Advisory Board, Lauds Substantial Contributions to How it Serves Engineering Design Markets and Communities

14 February 2012

Alcove9 introduces our Advisory Board members. Each member brings a strong background in their individual fields. Together they will be a powerful asset to Alcove9, making a substantial contribution to how we serve the market and the community.

Aaron Fulkerson

Aaron Roe Fulkerson of San Diego, California. Aaron Roe Fulkerson is co-founder and CEO of [MindTouch](#), the leader in online help systems. As CEO of MindTouch, Aaron has grown the company from a small open source project to a widely respected brand in social business software with millions of users around the globe. Aaron was a member of Microsoft’s Advanced Strategies and Policies division where he worked on distributed systems research. Aaron has also helped to launch several non-profits and businesses outside the software industry.

Ulrich Herter

Ulrich Herter of Ann Arbor, Michigan Mr. Herter is the President of Seneca Investment Corporation which invests in numerous local and national companies dealing with software development and reselling, marketing and brand development, apparel design and sales, as well as sales and business development consulting. Until April of 2007, Mr. Herter served as the CEO of INCAT International, where he spearheaded the merger and acquisition of over a dozen companies and finally facilitated the

CIMdata PLM Industry Summary

complete sale of INCAT to the TATA Group, an Indian multinational conglomerate. The TATA Group has interests in communications and information technology, engineering, and more. Mr. Herter holds an MBA from Wayne State University in Detroit, MI and a BA/Economics from the University of Freiburg, Germany. He has residences in both Sanibel, Florida and Ann Arbor, Michigan.

Dr. Gustav Olling

Dr. Gustav J. Olling of Rochester Hills, Michigan Dr. Olling is the current President of Rapid Product Creation, LLC, which is a company that provides leadership in the evaluation of research, development, and implementation of strategies and technologies for Digital Product Creation. His impressive background includes executive positions with [Daimler] Chrysler Corporation in CAE/CAD/CAM R & D and has served as a professor and Chairman at Bradley University, in Peoria, Illinois in the Department of Manufacturing Engineering, the Department of Manufacturing Engineering Technology and the Director of the Manufacturing Research Institute. He served 3 years in the U.S. Armed Forces and started his career as a Master Machinist. Dr. Olling holds a Ph.D. from Purdue University, an M.A. from Bradley University, and an MS and BS from Northern Illinois University.

About Alcove9 LLC

[Alcove9](#) provides on-prem search solutions for engineering and manufacturing teams to resolve the daily challenges of product data accessibility and unnecessary duplication. Since its initial release in the mid 2000's, the a9 suite of solutions has helped more than 100 companies and 120,000 users quickly and easily find, view and use their data for timely decision-making and data reuse. Search-engine-like, browser-based and application-embedded interfaces enable users to search beyond naming conventions, meta data and file attributes. Search results include information from deep within each file, regardless of its content, format or location. No data migration or client-side installation is required, alleviating costly implementations and disruptive deployments. Alcove9 products are backed by a team of professionals with many years of experience in design and engineering efficiency, engineering applications integration and workflow analysis.

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Delcam France Appoints Avénao as Reseller for FeatureCAM and Delcam for SolidWorks

14 February 2012

Delcam has appointed one of France's leading SolidWorks resellers, Avénao, to supply and support its FeatureCAM feature-based programming software and its Delcam for SolidWorks integrated CAM system in the country. Avénao has established a new division, Avénao Manufacturing Solutions, to promote the Delcam CAM software to its extensive base of SolidWorks users.

Avénao was founded in 2002 as one of the earliest resellers of SolidWorks in France. It has grown and now supports more than 2,000 SolidWorks users from nine offices. Last year, the company grew to 120 staff and a turnover of 12 million Euros.

Feature CAM offers programming speeds that are impossible with other CAM systems by incorporating predefined machining rules controlling how and where material should be removed. The software uses this knowledge to evaluate the part geometry and material, select the most appropriate tools and operations, recommend machining strategies, calculate feeds and speeds, and then to automatically generate the NC code. This speed of toolpath generation means that machining of one-off parts or initial samples can be commenced within minutes of the receipt of the part model. As a result, delivery times

can be reduced dramatically.

Alongside this high level of automation, FeatureCAM offers complete flexibility. Users can edit the predefined machining rules with their own customisations to tailor the results for their own range of equipment. Once this editing has been done, every job on the particular machine is cut in a predictable manner, so ensuring consistent quality regardless of who did the programming.

In addition, a wide range of editing tools is available to optimise the initial toolpaths for series production, when the cycle time on the machine becomes more important than the programming time on the computer. This is particularly important for multi-turret and multi-spindle equipment, where the most efficient allocation of operations between turrets and spindles can have a significant impact on the overall cycle time.

Delcam for SolidWorks is based on Delcam's machining algorithms that are already used by more than 35,000 customers around the world. These strategies ensure increased productivity, maximum tool life and immaculate surface finish, even when cutting the hardest, most challenging materials.

At the same time, Delcam for SolidWorks has the same strong focus on ease of use as FeatureCAM, including all of the knowledge-based automation that makes the software so consistent and reliable. Most importantly, Delcam for SolidWorks includes FeatureCAM's Automatic Feature Recognition system which automatically extracts detailed feature information from the SolidWorks model. Once the features have been identified, Delcam for SolidWorks undertakes automatic selection of cutting tools, machining strategies, and feeds and speeds, to complete the programming operation.

Delcam for SolidWorks is fully integrated into the SolidWorks environment so that the program looks and behaves like SolidWorks. It offers full associativity so that any changes in the CAD model are reflected automatically in the toolpaths. However, this associativity is more intelligent than that offered in many other integrated CAM systems. Delcam for SolidWorks does not simply modify the existing toolpaths but also reviews the choice of cutting tools and machining strategies, and changes them if necessary.

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Human Solutions Group Expands Abroad

14 February 2012

The Human Solutions Group has gained new partners for the sales and support of its products in the fashion sector. In addition to Russia, China, Romania, India, Ukraine and Belarus, the company's products are now available locally in Finland, Tunisia and the Baltic states of Estonia, Latvia and Lithuania. These countries will supplement the Human Solutions Group's existing foreign branches in Italy, the United States and Hungary. The Group now has a presence in most key manufacturing and supply markets in the apparel industry. All the products from INTAILOR to CAD and ERP are supported — in other words, the solutions with the greatest relevance for the local markets.

“Our sophisticated and demanding quality strategy means that our partners are hand-picked. These are reputable companies with great expertise in the apparel industry and relevant technologies. We expect our partners to provide the best possible support on site and additional growth in other countries,” explains Dr. Andreas Seidl, Managing Director of Human Solutions, Assyst and AVM.

The new partners of the Human Solutions Group:

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Region	Partner	Technology
Baltic States	Sewing Equipment Center Company Limited http://www.sewingcenter.com.ua	All
Finland	IP Producter Oy http://www.ip-producter.fi	Bodyscanning
Tunesia - North African market	MA-MI (Machines Acces-soires Matières Premières Industries) http://www.mami.com.tn	All
South Korea	Wipco http://www.wipco.co.kr	Bodyscanning

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Lectra Names Laurent Alt Software R&D Director

16 February 2012

[Lectra](#) announced the nomination of Laurent Alt as the new director of its Software R&D department.

Lectra's R&D department is 220 employees strong, including 200 people in France. Every year the company consecrates major investments in R&D: EUR68.8 million over the past four years and EUR18.2 million (8.9% of revenues) in 2011 alone despite the economic crisis.

"The decision made in 2005, after deep consideration, to maintain Lectra's R&D and production in France has enabled it to meet the three challenges it faced: compete with the low-cost products of its international competitors that had relocated to China and those of its Asian competitors; increase its competitiveness; and boost its margins. This decision has also enabled Lectra to protect its industrial property," said Daniel Harari, Lectra CEO. "The arrival of Laurent Alt at the head of the Software R&D team follows Lectra's ambitious investment policy over the past seven years. Laurent is a man of talent. In addition to his management qualities, his mastery of complex information systems projects, and his knowledge of latest-generation technologies, his experience in CAD and PLM will enable us to reinforce our technological advance all the more."

Laurent Alt, a graduate of the Ecole Normale Supérieure de Paris, began his career in 1987 at Thomson Digital Image where he created the first software for articulated characters and participated in the development of a 3D modeling package intended for industrial design. Over the next 14 years he held positions in R&D management, corporate strategy, and consulting and pre-sales for PLM solutions at Dassault Systèmes. In 2007, Laurent joined SpaceClaim, an American concept design software startup, created by Mike Payne, co-founder of PTC, and then Solidworks, where he directed the 3D geometry tool R&D team. Finally, in 2009 he became CEO at HD3D, a company which develops digital content production management software, in partnership with French audiovisual leaders such as Mikros Image, Mac Guff Ligne, and even Eclair Laboratoires.

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Rand Worldwide Earns Recognition as a John Deere "Partner-level Supplier" and Hall of Fame Supplier

16 February 2012

Rand Worldwide announced that it has earned recognition as a Partner-level supplier for 2011, and was inducted into the supplier Hall of Fame, in the John Deere Achieving Excellence Program. Hall of Fame status is given after a supplier attains a Partner-level rating for five consecutive years.

The Partner-level status is Deere & Company's highest supplier rating. The Framingham-based company was selected for the honor in recognition of its dedication to providing products and service of outstanding quality as well as its commitment to continuous improvement. Company employees accepted the recognition during formal ceremonies held on February 15 in Moline, Illinois.

Rand Worldwide is a supplier of Pro/ENGINEER training and support solutions to John Deere's operations across North America and Europe. Rand Worldwide was one of six 10-year Hall of Fame recipients at this year's ceremonies.

Derryl Caillemer and Megan Dunton of Rand Worldwide receiving the John Deere award

Suppliers who participate in the Achieving Excellence program are evaluated annually in several key performance categories including quality, cost management, delivery, technical support and wavelength, which is a measure of responsiveness.

With a history of providing professional training programs and courseware, Rand Worldwide offers its customers significant and measurable value. Further extending on this mission of providing value, Rand Worldwide also provides Autodesk software solutions to John Deere, through its IMAGINiT Technologies division.

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Selerant Joins The Sustainability Consortium

17 February 2012

Selerant Corporation has announced its membership with The Sustainability Consortium, an independent organization of diverse global participants working to design and implement credible, transparent and scalable science-based measurement and reporting systems accessible for all producers and users of consumer products.

Selerant is a Product Lifecycle Management software solution provider for formula-based manufacturing corporations. Selerant's web-based solution, DevEX, expedites products to market with scalable modules that include: EcoDesign for Sustainability and Lifecycle Assessment (LCA), Product Development, Regulatory Compliance, Product Data Management and Specifications, as well as Innovation Process Management.

Selerant Corp. joins TSC as a Tier 1 member and will be an active participant in the design and development of the science, tools and systems created for product sustainability analysis. Selerant will also hold a seat on The Sustainability Consortium's Corporate Advisory Council and take part in the Measurement Science Consortium Working Group. Additionally, Selerant will have a seat on the Food, Beverage & Agriculture Sector Working Group in order to help improve the environmental and social sustainability of global agricultural supply chains.

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"Selerant dedicates significant resources to the advancement of LCA methodology through our PLM Solution, DevEX," states Jacopo Colombo, Selerant CTO. "We view our partnership as another significant step in our commitment to sustainability."

Selerant's membership will increase awareness of the capabilities of LCA tools, their impact on product lines, and the success at corporation sites.

Kevin Dololey, Academic Director at The Sustainability Consortium, comments, "Selerant joins a growing list of IT providers in TSC, and we look forward to working with them to understand how TSC's work can be implemented in practice."

About Selerant

Founded in 1990, Selerant focuses solely on recipe-based product development software to expedite time to market, ensure quality and regulatory compliance, improve product quality, and build lasting relationships with their customers.

Selerant's exceptional service and solutions to over 500 companies and mid-sized organizations has been recognized for its best practice methodology in DevEX, achieving FDA 21CFR PART II compliance implementation and ISO 14040:2006 and 14044:2006 certification for Eco-Design (Lifecycle Assessment for Sustainability Initiatives) software tool.

Selerant is headquartered in New York, NY, USA, Milan, Italy and Shanghai, China. Utilizing its global presence and 20+ years of domain experience, Selerant offers unique expertise to serve leaders in process manufacturing industries, including: Food, Beverage, Flavor, Chemicals, Paint, Ink, Fragrance, Household Goods, Pharmaceuticals, and Cosmetics. Learn more at <http://www.selerant.com>

About The Sustainability Consortium

The Sustainability Consortium (TSC) is an independent organization of diverse global participants that work collaboratively to build a scientific foundation that drives innovation to improve consumer product sustainability. TSC develops transparent methodologies, tools, and strategies to drive a new generation of products and supply networks that address environmental, social, and economic imperatives. The Sustainability Consortium advocates for a credible, scalable, and transparent process and system. The organization boasts over 75 members from all corners of business employing over 57 million people and whose combined revenues total over \$1.5 Trillion. Arizona State University and the University of Arkansas jointly administer The Sustainability Consortium, with additional operations at Wageningen University in The Netherlands. Learn more at <http://www.sustainabilityconsortium.org/> Twitter: follow @TSC_news

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SolidWorks Certifications Exceed 50,000 Users

13 February 2012

Dassault Systèmes SolidWorks Corp. announced that it awarded its 50,000th certification in the acclaimed SolidWorks training certification program. Created more than 10 years ago, achieving certified status validates that SolidWorks[®] software users have the tools and capability they need to ensure success with SolidWorks software. The benefits of focusing on key skills and concepts in SolidWorks have directly translated into more job opportunities and extended career growth for SolidWorks certified professionals. In addition, employers recognize the value of the SolidWorks

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certification as a powerful instrument that not only maximizes their investment in SolidWorks, but also gives them a productivity advantage against their competition.

Emma Katharine Singer, a mechanical engineering student from the University of Colorado, Boulder, helped tip the scale to 50,000 certified users. Two years ago, Emma started using SolidWorks software during an internship at a lighting factory in Brooklyn. With the help of SolidWorks tutorials, Emma taught herself how to use the program in just a few days. Emma is now a Certified SolidWorks Associate (CSWA) and is using that certification as a teaching assistant, helping other engineering students learn SolidWorks.

For students, the SolidWorks certification serves as an industry-recognized achievement that can set a candidate apart from his/her peers when looking for a job. For professionals, passing the exam demonstrates the user has the skills to create high-quality designs using SolidWorks software, as well as add value to any organization. Employers rely on the certification to make better hiring decisions as well as invest in their employees' professional development.

“The [Certified SolidWorks Professional](#) (CSWP) and [Certified SolidWorks Expert](#) (CSWE) certifications have not only enabled me to garner optimal job opportunities, but have allowed me to raise my salary as well,” said Bill Hamze of JL Audio Miramar, FL. “SolidWorks certification is serious business—it helps designers hone skills, prove proficiency, and generally become more effective and marketable. My next goal is to achieve every available SolidWorks certification.”

[SolidWorks' certification is tiered based on skill level](#), ranging from CSWA to CSWE for the most experienced professionals. There are also specialty designations such as surfacing and sheet metal. The program is specifically designed to meet the needs of engineers and designers in a multitude of industries. Exams are offered in several languages including, French, Portuguese, and Korean, making the certification recognizable worldwide.

“Our users are committed to continual learning and development to further career growth, and they are using our certification program to help support that,” said Jeremy Luchini, certification program manager for DS SolidWorks. “Training and learning are critical components of evolving design, and we take certification seriously—it has to be of value both to our users and to their employers. We've achieved that with the program to date, and are looking forward to the next milestone from our highly engaged and accomplished user base.”

For more information on SolidWorks certification, please visit:

<http://www.solidworks.com/sw/support/mcad-certification-programs.htm>.

To confirm a certification or to find a certified user in your area, please visit:

<https://www.virtualtester.com/solidworks/branding/user-portal/user-portal.html#>

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Spring 2012: Opening of the TERATEC Campus

February 2012

Located right next to CEA's Very Large Computing Center, the TERATEC Campus will bring together the key players in high-performance computing and simulation.

It comprises major industrial players in industry and technology providers (manufacturers, editors, service providers), an incubator and a business center, collaborative industry & research laboratories, an

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HPC training college and service platforms, thus offering a complete ecosystem dedicated to HPC. It is organized around three main axes: systems architecture and performance, software development and service provision.

Today, TERATEC is the essential meeting place for industrial players in high-performance numerical simulation and plays a driving role in the promotion and development of HPC in France and Europe. Its objective is to promote, stimulate and develop innovation among corporations, especially SMEs at all stages of their development.

Customized Solutions Offered by an Incubator and Business Center

In collaboration with local authorities and the Chamber of Trade and Industry of the region of Essonne, the TERATEC Campus offers premises customized to the needs of your business: an incubator offering customized solutions to new businesses and a business center offering all business services.

Locating your business on the TERATEC Campus, in premises owned by the Chamber of Trade and Industry of the region of Essonne, means you are sure to get a professional service "à la carte":

- More than 13 years of experience running incubators and business centers.
- Our values: we listen to businesses above all to define the offer made by our incubator and business center, so that our service is as close as possible to their needs.
- Our ambition: to offer our know-how to preliminary, innovative and fast-growing business sectors.
- Our primary mission: to support the development of your businesses.
- Our daily task: to make life easy for the businesses hosted, by assisting them with all their non-core functions.
- We offer fully-equipped offices in a secure building, accessible 24/7.
- The advantage for businesses at TERATEC is that those at the heart of the TERATEC campus get a dedicated support package provided by the Business Support Team from Essonne CCI.

To find out more about the offers available to businesses from the incubator and business center, please contact the Chamber of Trade and Industry of the region of Essonne, [Marie-Noëlle DECARREAUX](#) - Tél. : +33 (0) 1 60 87 89 10.

Collaborative Laboratories for Industry and Research

Several Industry & Research laboratories have opened up on the TERATEC Campus:

[Exascale Computing Research Laboratory](#) (INTEL/CEA/GENCI/UVSQ) Dedicated to software applications for Exascale and open to outside partnerships, the Exascale Computing Research laboratory (ECR) is now fully operational with about thirty collaborators working on a selection of software challenges presented by the Exascale. This laboratory is the fruit of joint working between CEA, GENCI, INTEL and UVSQ and has two main axes to its research. One is existing applications from industry or from academic partners moving to Exascale. The second is developing an environment of tools and methods that allow couple profiling (application, machine) with a view to Exascale, based on its own methodology.

Extreme Computing Laboratory (BULL/CEA) develops future architectures and the next generation of very high performance systems

Other laboratories and research activities in different fields of simulation, from software

development to design for complex systems.

Launch of IRT SystemX, an Institute for Technological Research on the systems engineering of the future

The Ministry for Higher Education and Research has given the green light to the creation of a new Institute for Technological Research, IRT SystemX. This institute will concentrate on infrastructures and numerical engineering tools associated with the new capacities for storage, processing and communication (on-board systems/HPC, Cloud Computing, design and simulation tools etc.). Those tools are strategic for competitiveness and innovation. They help guarantee industrial ability to innovate, an essential point facing world-wide competition.

Five competitiveness clusters support IRT SystemX (Systematic Paris Région, Medicen, Advancity, Mov'eo and Astech). Approximately forty partners (industrial and technology companies along with the higher education sector) are involved in developing this institute. Its main site will be in Saclay, with secondary sites in Paris and in Bruyères-le-Châtel on the TERATEC Campus.

TERATEC Institute: MIHPS Graduate Courses Continuous Training

The TERATEC Campus is home to the TERATEC Institute, which offers students and executives training to master two major technological developments, high-performance simulation and computing.

With the [MIHPS \(Master's Degree in High-Performance Computing & Simulation\)](#), students will gain multi-disciplinary expertise, specializing in HPC programming techniques and modeling and simulation expertise, alongside strong expertise in parallelism (hardware, software, numerical) and in network computing. The Master's Degree is delivered by the Université de Versailles Saint-Quentin-en-Yvelines, the Ecole Centrale de Paris, the Ecole Normale Supérieure de Cachan and the PRES UniverSud.

With a success rate of 82% in the first year and 83% in the second year of the first intake of students, the master's degree is showing good results. Moreover, in accordance with the research and professional aim of the master's degree, half of the second year graduates have entered into research, and the other half are specialized managers in HPC. The 2011-2012 class is made up of 21 students in the first year, and 21 in the second year.

TERATEC has been working closely with Supelec and leading manufacturers to set up and implement graduating HPC courses based on training partly in the classroom and partly at work. They take between 12 and 24 months, and are aimed at corporate executives. These courses are intended to meet the needs of business in the field of simulation and high-performance computing, both for vendors and users of technology.

"A la carte" continuing training can also be offered, depending on the company's needs. All training will take place on the TERATEC Campus, in an environment entirely dedicated to supercomputing and simulation.

Near the TERATEC Campus is CEA's Very Large Computing Center

The TGCC is a new "green infrastructure" dedicated to high-performance computing, capable of hosting supercomputers on a petaflop scale. This computing center was designed to host the [supercomputer CURIE](#), made available by [GENCI](#) for research purposes through the [PRACE Research Infrastructure](#), as well as the next generation of the Center for Computing Research and Technology ([CCRT](#)).

This new infrastructure was designed to:

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- host computing systems dedicated to high-performance computing,
- offer a space for communication that can host large scientific events (conferences, seminars etc.),
- provide a modular and flexible building big enough to hold the machines of the future.

TERATEC FORUM 2012 June 27 & 28 2012 Ecole Polytechnique

Bringing together the best international experts in HPC, the TERATEC Forum is a major event in France and in Europe. The seventh edition will be taking place on June 27 and 28, 2012, in the campus of the Ecole Polytechnique.

On June 27, the common subject of plenary sessions will be the diversity of uses of supercomputing, with the participation of public figures from the political, economic and academic worlds, leading international industrial users and leading suppliers of these technologies.

On June 28, Technical workshops will bring together the best experts in complex engineering systems, high performance systems, scientific visualization, data deluge, HPC and embedded systems, and will review the technological challenges presented by Exascale.

During these two days, there will be an exhibition of around sixty booths of the main players in high performance computing and simulation. Software manufacturers and producers, integrators and distributors, service providers, academic and laboratory researchers, public and private sector developers, etc. will present their latest HPC innovations.

If you would like to take part in these days, submit a paper for the workshops, book a booth in the exhibition or sponsor the TERATEC 2012 Forum, please contact [Jean-Pascal Jegu](#) as soon as possible - +33(0)1 69 26 61 76

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Tecplot, Inc. Names Rich Stillman As Chief Executive Officer

13 February 2012

[Tecplot, Inc.](#) announced the appointment of Rich Stillman as president and CEO, succeeding Mike Peery in that role. As co-founder of Tecplot, Peery will maintain an active role as chairman of the board and remain focused on continued product innovation and customer satisfaction.

Stillman is an experienced executive having spent more than 30 years in marketing, sales and executive management positions in large companies and entrepreneurial settings. During his tenure as president and chief operating officer of Coinstar and as CEO at Ivey Imaging, Stillman led the strategic direction and vision to achieve continued product innovation, further expanding company growth and service capabilities to customers. Stillman holds an MBA from Columbia University Graduate School of Business, where he was also an Adjunct Professor of Marketing and a B.S. from Babson College. Stillman first joined Tecplot as chief operating officer in April 2011. In addition to now serving as the company's president and CEO, he will also join Tecplot's board of directors.

“Tecplot is continually at the forefront of innovation in providing high-quality engineering and scientific visualization tools and services to help engineers and researchers be more creative, efficient and productive,” said Rich Stillman, president and CEO of Tecplot. “With the recent release of Tecplot Chorus, the first in a new category of simulation analytics products, the company is poised for significant growth as we continue to develop innovative visualization and analysis software.” For more

than 30 years, Peery has been an exceptional leader and industry expert to the Tecplot team, its customers and the broader industry. This transition is a natural progression that will enable Peery to focus on the company's hallmark of providing the best service to its customers, and make a stronger impact during an exciting growth period with the launch of Tecplot Chorus.

"Rich is the ideal candidate for this position for many reasons," said Peery. "He has a comprehensive understanding of how to take companies to the next level and is deeply passionate about innovative technologies that enable customers to be more creative, efficient and productive. I'm confident that Rich will guide the company to even greater success."

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Events News

A Successful 2011 for Missler Software

February 2012

Missler Software recently held its 11th International TopSolid seminar in Cannes, in the South of France. The annual TopSolid seminar took place from January 18-22 and marked the kick-off for 2012 for French sales teams and international TopSolid resellers. More than 200 participants from over 35 countries participated in the event which focused essentially on the new TopSolid 2012 versions.

Both internal and international sales team had the opportunity to discover the new 2012 versions and the roadmap for future versions during the plenary session and break-out sessions organised throughout the seminar.

The seminar concluded with a gala award ceremony where the most successful French and international Sales Teams were rewarded.

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Aras Announces New Release of Aras EPLM for SolidWorks Enterprise PDM

13 February 2012

Aras[®] announced at the SolidWorks World 2012 conference the latest release of Aras Enterprise PLM (Aras EPLM[™]) for SolidWorks[®] Enterprise PDM. New features include Redline Revision Comparison, Dynamic Team Collaboration Security, Enterprise Virtualization, and even better SolidWorks-style look and feel and more. **Attendees at SolidWorks World 2012 can see the latest release of Aras EPLM in Booth #228.**

FREE WEBCAST:

Aras EPLM for SolidWorks[®] EPDM New Features & Functionality

March 20, 2012 - 11:00am Eastern Time

REGISTER: <http://aras-eplm.com/webcast>

Designed specifically for companies that run SolidWorks, Aras EPLM extends the capabilities of Enterprise PDM with packaged functionality for corporate-wide PLM business processes, enabling global businesses to improve product quality, accelerate time to market and achieve greater profitability without sacrificing their SolidWorks investments.

Release Highlights:

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Familiar SolidWorks Look & Feel - New SolidWorks EPDM screen design further simplifies use for SolidWorks designers

Redline Revision Comparison - Makes it quick and easy to visually identify and compare changes to Bill of Materials (BOMs), suppliers, documents, and more

Dynamic Team Collaboration Security - Enables the definition of collaboration teams on-the-fly for any item or group of items such as a BOM and related MCAD, EDA and software / firmware files for easy extended enterprise collaboration

Enterprise Virtualization - Comprehensive support for data center virtualization enabling distributed deployment scenarios across physical server infrastructure resources around the world

Additional Functionality Includes:

Improved multi-level Bill of Materials (BOM) views

Multiple out-of-the-box enterprise change management process options

Enhanced configuration management capabilities for baseline history

Simplified release process for large groups of affected items

Enhanced vault replication capabilities

Thumbnails saved as vaulted items

Web services 'builder' for even easier integrations

Connectivity to Microsoft Active Directory for single sign-on

Support for Internet Explorer 9, Windows 7 and SQL Server 2008 R2

“The response to Aras EPLM from the SolidWorks community has been overwhelmingly positive. It’s clear that together SolidWorks EPDM and Aras EPLM are providing the highly scalable, secure PLM business process functionality that today’s global companies need,” said Peter Schroer, President of Aras.

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Aras Sponsors PLM Innovation Congress 2012

16 February 2012

Aras and Aras Corporate Community Members Carestream Health, Minerva, DataSquare, NobleTek, Shapespace, Trubiquity and xPLM to Present and Exhibit at Global PLM Conference.

Aras® announced that the company will sponsor the [2012 PLM Innovation Congress](#) in Munich, Germany. Attendees at the PLM Innovation Congress will have the opportunity to see the Aras Innovator® suite and learn first-hand about the power of Aras’s advanced PLM platform from Aras corporate community members in several presentations and exhibits.

Where to see Aras at the 2012 PLM Innovation Congress:

Feb 23rd, 8:00am CET - System Engineering: Evaluate Barriers Constraining Integrated Product Development and Possible Solutions, chaired by Aras Community Member Charly Watchtel of xPLM Solution, GmbH.

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Feb 23rd, 2:25pm CET - Open Source Case Study: Carestream Health, presented by Aras Community Member David Sherburne, Director of Global R&D Effectiveness, Carestream Health Inc.

Feb 23rd, 2:55pm CET - The Future of PLM Business Models, a panel discussion featuring Aras community members David Sherburne, Director of Global R&D Effectiveness, Carestream Health Inc. and Leon Lauritsen, Director and Partner, Minerva

Exhibit Hall – Aras / Minerva, DataSquare, NobleTek, Shapespace, Trubiquity and xPLM

The 2012 PLM Innovation Congress takes place February 22-23 at The Westin Grand Munich in Munich, Germany. The PLM Innovation Congress brings together world class speakers and thought leaders to discuss the continuing evolution of PLM. The event provides an opportunity to discover the latest advancements in PLM technology, network with peers, and learn how PLM can help global organizations achieve critical business objectives.

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Autodesk Brings LEGO Brickley to Life Digitally with 3D Instructions

16 February 2012

Autodesk, Inc. exhibited an innovative approach for 3D interactive building instructions at LEGO® World 2012 in Copenhagen. The digital assembly instructions can be experienced on a custom developed iPad app powered by Autodesk.

Autodesk [Inventor Publisher](#) software helps manufacturers explain their products with clear, accurate and compelling 2D and 3D product documentation. Providing an alternative to traditional instructions, Inventor Publisher generates 3D interactive instructions that run on iPad, iPhone, iPod touch and Android devices. Working with The LEGO Group, Autodesk developed the LEGO branded app utilizing Inventor Publisher technology to help provide a totally new building experience for LEGO fans at the LEGO World 2012 event.

At LEGO World, children of all ages will have the opportunity to use the app to view interactive 3D animated building instructions to assemble Brickley, the LEGO dragon. At any time, they can stop the animation, zoom in on a part or rotate the model to see exactly how parts need to be fitted together—presenting a new experience that brings the physical and digital world together in an exciting way.

The goal of The LEGO Group is to help children enjoy a seamless, tactile play experience from the 3D digital instructions on their mobile device touch screen to the physical LEGO bricks. By teaming up with Autodesk, the LEGO Group is able to explore how the impact of 3D interactive technology can potentially enhance the customer experience.

“With the increased preference for 3D visualization and the proliferation of mobile devices, we are partnering with technology leaders and innovators like Autodesk to harness powerful digital design data to show what’s possible to our customer base,” said Olav Gjerlufsen, director at The LEGO Group. “We’re excited to provide fans at LEGO World Copenhagen with these interactive building instructions to digitally view and interact with LEGO bricks to complement their building experience.”

For more information on The LEGO Group, visit <http://www.lego.com>.

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AVEVA Presents at and Sponsors the 7th Annual Asset Integrity Management Week

13 February 2012

AVEVA announced that it will be giving a conference presentation and sponsoring the 7th Annual Asset Integrity Management Week, 11-15 March 2012, at New Westin Hotel, Abu Dhabi, UAE.

Mohamad Awad of AVEVA will present “A Plant Operation Perspective: Bridging the Information Gap using Technology” on Monday 12 March at 11am. It will investigate how companies in the oil & gas, marine and power industries are benefiting from improved information consistency and integrity. The presentation explains how finding the right asset management solution will enable powerful information access and validation, keeping data evergreen across the entire lifecycle of the asset.

“Companies with the right information strategy are controlling risk, compressing schedules and reducing their project and operational costs”, said Mohamad Awad, Business Development Manager, Middle-East & India, AVEVA. “Working across disciplines, between organisations, and around the world requires the ability to collect, share and validate important information. All types of engineering, design and operational data and documents must be available to the right people at the right time. Our presentation will demonstrate how this can be achieved, and the Asset Integrity Management week is the perfect place to showcase this expertise”.

At the 7th Annual Asset Integrity Management Week, held in Abu Dhabi, UAE from 11-15 March 2012, professionals will gain an insight into solutions for AIM and learn how implementation strategies are changing the face of day-to-day operations across the industry.

Learn more about the [Integrity Management Week 2012](#).

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BETA CAE Systems S.A. Announces the 2012 ANSA & μETA French Open Meeting

February 2012

BETA CAE Systems SA and Safran Engineering Services extend an invitation to the 2012 Open Meeting that will take place on Wednesday March 14th 2012 at the SAGEM Headquarters, Paris, France. The event aims to introduce the latest developments in ANSA and μETA Pre- and Post-Processing suite and to showcase its application in various CAE disciplines. The "Technical Discussions" session that will follow the event's closing will give participants the opportunity to meet in person with our engineers and discuss about the software features and their application.

BETA CAE Systems S.A. and Safran Engineering Services would like to express their appreciation to the invited speakers from RENAULT SAS, PSA Peugeot Citroën and Safran Group for their contributions.

There is no participation fee for this event.

However, for the better organization, we would appreciate if you register by email to ansa.meta@safran-engineering.com, no later than Friday March 2nd, 2012.

The language of the presentations will be French or English.

The attire will be business casual.

Coffee servings and lunch are courtesy of Safran Engineering Services.

Preliminary Agenda

9:00 - 9:30 Registration

9:30 - 10:00 Discours de Bienvenue

David Picot, Directeur des Etudes, Safran Engineering Services

Welcome and Product Roadmap

D. Angelis, President, BETA CAE Systems

10:00 - 10:30 ANSA Latest Developments

N. Drivakos, BETA CAE Systems

10:30 - 11:00 μ ETA Latest Developments

E. Kastrinakis, BETA CAE Systems

11:00 - 11:30 Coffee break

11:30 - 12:00 Invited speech:

ANSA Data Management et Batchmeshing, au service de l'assemblage d'une Caisse : de l'export PDM à l'assemblé EF

J. Gomez, RENAULT SAS

12:00 - 12:30 Intégration d'Ansa et μ ETA dans le processus de dimensionnement mécanique du Bateau SAFRAN 60'

P. Biagi, SAFRAN Engineering Services

12:30 - 13:30 Lunch

13:30 - 14:00 Simulation, Process, Data & Resources Management (SPDRM) - a new solution from BETA CAE System

S. Seitanis, BETA CAE Systems

14:00 - 14:30 ANSA & μ ETA Latest Developments in CFD

V. Skaperdas, BETA CAE Systems

14:30 - 15:00 Case Studies on Morphing and Optimization

D. Georgoulas, BETA CAE Systems

15:00 - 15:30 Coffee break

15:30 - 16:00 Invited speech:

Stratégie de maillage de structure chez PSA Peugeot Citroën

Fabrice Denard, PSA Peugeot Citroën

16:00 - 16:30 ANSA & μ ETA solutions for Powertrain analysis

I. Makropoulou, BETA CAE Systems

16:30 - 18:00 Closing & Technical Discussions

Venue

SAGEM Headquarters

"Salle du Ponant"

27 Rue Leblanc

75015 Paris, France

Important dates

Registration until: March 2nd, 2012

Event: March 14th, 2012 Information & Registration

Murielle Cazaudumec

Safran Engineering Services

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ansa.meta@safran-engineering.com



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Delcam to Show Latest FeatureCAM at WESTEC

15 February 2012

Delcam will demonstrate the ease and speed of programming that is possible with its FeatureCAM feature-based CAM system on **booth 2812** at WESTEC in Los Angeles from 27th to 29th March. The latest FeatureCAM release, 2012 R2, includes important new strategies for roughing and turn-mill operations, alongside a range of more general enhancements to allow faster toolpath generation.

The main addition to FeatureCAM 2012 R2 is a series of new strategies for 2.5D roughing. These include a continuous spiral option to minimise wear on the cutter and machine tool, high-speed roughing options, including trochoidal machining and Delcam's patented Race Line Machining, and "tear-drop" moves to clear corners more smoothly. In addition, more styles of leads and links can now be used to give greater overall efficiency for the toolpaths.

Stepovers for 2.5D mill roughing can now be set as large as the tool diameter itself. Previously, stepovers were limited to 50% of the tool diameter and, if this limit was exceeded, the toolpath would leave stands. The new algorithm supports larger stepovers by providing extra moves automatically to clean up those stands.

Other milling improvements include an option to add an extra profile pass exactly at the base of flat pockets, the ability to use face-milling tools with chamfered edges to machine chamfers as well as faces and so minimise the number of tools needed, a choice of right- or left-handed thread-milling tools resulting in either climb or conventional machining of the thread, and the ability to reduce calculation times by saving boundaries as curves if they will be needed for subsequent calculations.

Roughing has also been improved for users of turning equipment that can operate with live tooling. A new option allows cutting with a live milling tool, while the workpiece is rotating in the turning spindle. This approach avoids the issues associated with interrupted cutting and ensures regular chip breakage, so

removing any chance of wrap-around by the swarf.

Turn-mill programming has been improved with the addition of more flexible five-axis positioning. For example, any amount of negative b-axis movement available can be used, so avoiding extending the y limit too far back into the machine. Switching the positioning angles in this way makes editing easier to keep the machine within its travel limits.

Another turn-mill improvement is support for cylindrical interpolation, which allows toolpaths to be created with NC code for a plane and then wrapped around a cylinder. This approach, which can also be used for four-axis milling, allows cutter compensation to be applied when calculating the toolpath and gives smaller NC code files.

All FeatureCAM users will benefit from improvements to the simulation module. In particular, they will see much faster results through the use of multiple cores for these calculations. In addition, the ability has been included to save a position during the simulation, for example, while toolpaths are being edited, and then to run the simulation from that position rather than from the start.

Other general enhancements include direct cutting and pasting of models between FeatureCAM and Delcam's PowerSHAPE design and data repair software, and the ability to create machining configurations on a network as well as on an individual computer, so saving time and encouraging consistent results from different users.

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Delcam to Show Latest in Feature-Based Programming at MACH

17 February 2012

Delcam will demonstrate the ease and speed of programming that is possible with its FeatureCAM feature-based CAM system on **stand 4011 at the MACH exhibition** to be held in Birmingham from 16th to 20th April. The latest FeatureCAM release, 2012 R2, includes important new strategies for roughing and turn-mill operations, alongside a range of more general enhancements to allow faster toolpath generation.

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Delcam to Show new 3D Tools in ArtCAM Insignia at Sign & Digital

16 February 2012

Delcam will demonstrate the range of new 3D modelling tools that have been added its ArtCAM Insignia software on **stand K34 at the Sign & Digital exhibition** to be held at the NEC, Birmingham, from 27th to 29th March. The price of the new program is £1,700, making the move into 3D signmaking more affordable than ever.

ArtCAM Insignia allows artistic users to produce high-quality decorative signs, with all the productivity and consistency benefits of computer-based manufacturing but without the need for any detailed engineering knowledge. Full details are available on the ArtCAM Insignia website – <http://www.artcaminsignia.com>.

Within the new 3D modelling tools, the most powerful option is the Shape Editor. By simply double clicking on a specific colour of a bitmap image or a selected vector, the user can quickly transform it into a 3D design. The Shape Editor can not only determine the shape's profile, angle and height but also how it is combined with any 3D relief that has already been created within the design.

A second method for creating 3D designs from vector art is the Two-Rail Sweep. By selecting multiple vectors for the edges of the shape and any number of cross sections for chosen positions, users can quickly create a 3D sweep shape or a swept surface.

Once the initial design has been created it can be edited in a number of ways. The surface of the model can be given a smooth, unblemished appearance with the Smooth Relief tool. Options are available to smooth over the entire 3D design, an area within a specific vector or a selected colour, in a number of

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passes. This is a particularly useful way of smoothing evenly across a scanned 3D model for example.

Areas of the design can also be smoothed with the Smooth Sculpting tool. This can be used to remove blemishes from a scanned 3D model, to smooth adjoining areas of multiple pieces of relief clipart, or to soften sharp edges or corners. The final option can be particularly useful for designers of dies for foil stamping or embossing as softer corners can prevent the die from ripping the material.

Any mistakes made during smoothing can be overcome with the Erase tool, which allows the user to sculpt back to a previous point in time. The same tool can also be used to sculpt areas down to a flat surface.

Textures can be added to all or part of the relief to give a more attractive design, or to provide backgrounds on signs. Networks of shapes, such as spheres, cones, pyramids and weaves, can be added or subtracted to any colour and vector, or to the entire 3D model. Alternatively, files can be imported to create the required texture.

The complete relief can be offset, either to hollow out the part or to create the wall thickness. The same option can be used in toolmaking, either to produce the core and cavity of a mould, to create a male punch or to generate the shape required for a master for vacuum-formed signs.

All signs designed in ArtCAM Insignia can be machined with the range of 3D strategies in the software. The software incorporates efficient manufacturing options for both one-off machining or for mass production, plus post-processors for all leading types of routing and engraving machine.

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EDA Consortium Outlines CEO Forecast & Industry Vision Event on February 29, 2012

15 February 2012

The EDA Consortium (EDAC) announced the panel of distinguished industry executives who will participate in the EDAC Annual CEO Forecast and Industry Vision panel on Wednesday, February 29, 2012. Ed Sperling, Editor in Chief of System Level Design, will moderate this year's event. Panelists, who will discuss trends affecting the EDA industry and offer insights on growth for the upcoming year, are:

- Edmund Cheng, President and CEO of Gradient Design Automation
- Aart de Geus, Chairman and CEO of Synopsys
- Walden C. Rhines, Chairman and CEO of Mentor Graphics Corporation
- Simon Segars, EVP and General Manager, Physical IP Division of ARM
- Lip-Bu Tan, President and CEO of Cadence Design Systems

Robert Gardner, Executive Director of the EDA Consortium said, "EDAC is proud to once again present the industry's leading executives for an evening of insightful and lively discussion. The annual assembly of these seasoned CEOs speaks both to their commitment to participate in furthering industry growth, and to their pride in overseeing the work that EDAC facilitates."

Moderator Ed Sperling added, "With the industry facing unparalleled demand for more complex designs with a shorter time to market, the goal this year is to compare notes between the EDA industry and the industry's leaders to see where they're in sync, where they differ, and to drill down into where the

CIMdata PLM Industry Summary

industry is heading.”

Reserve your seat soon by registering online at: <http://www.edac.org/events12/ceoForecast/index.jsp>

The event details are as follows:

When: Wednesday, February 29, 2012

Where: Silicon Valley Bank 3005 Tasman Dr.

Santa Clara, California 95054

Agenda: Reception 6 PM

Panel 7 PM

Q&A (30 Min.) 8 PM

Cost: No charge for EDA Consortium members, OCP-IP members, and the press.

Admission is \$50 for non-members, payable at the door or online.

About the EDA Consortium

The EDA Consortium is the international association of companies that provide design tools and services that enable engineers to create the world’s electronic products used for communications, computer, space technology, medical, automotive, industrial equipment, and consumer electronics markets among others. For more information about the EDA Consortium, visit <http://www.edac.org/>, or call (408) 287-3322.

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ESPRIT 2012 by DP Technology at SolidWorks World 2012, Feb. 12-15

11 February 2012

DP Technology’s ESPRIT® 2012 computer-aided manufacturing (CAM) software will be exhibited Feb. 12-15 in San Diego, Calif., where SolidWorks World 2012 is scheduled to take place at the San Diego Convention Center.

With more than 150 technical break-out sessions led by SolidWorks users and manufacturing experts, attendees will learn how to increase efficiency and, ultimately, the bottom line. In addition, participants will have the opportunity to network with peers and solution partners, as well as resellers and SolidWorks employees.

Attendees will also investigate the ground-breaking technologies offered by more than 100 exhibitors in the SolidWorks Partner Pavilion.

ESPRIT will be exhibited at booth No. 305, where visitors will receive one-on-one demonstrations and presentations of features available within the latest generation of ESPRIT, including ESPRIT FX™ technology, turning stock automation for lathes, open-pocket milling, EDM machine specific machining technology, improved 3D machining performance, B-axis turning for 5-axis mill-turn machines, and more.

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49th Design Automation Conference Work-in-Progress (WIP) Track

16 February 2012

The [Design Automation Conference \(DAC\)](#) features a unique Work-In-Progress ('WIP') forum that enables researchers to share preliminary results and receive constructive feedback on their work. It is a quick and low-threshold way to reach DAC's large expert audience without jeopardizing the option for a full publication at a later stage. A DAC WIP submission is a concise single-page summary that clearly specifies the technical problem, outlines the solution and provides the early results. WIP submissions are accepted for presentation at a poster session during the 49th DAC, which will be held at the Moscone Center in San Francisco, California, from June 3-7, 2012. Submissions must be received by 5pm MT on March 12th, 2012.

Submissions are judged by the DAC Technical Program Committee. A 100-word summary abstract of accepted WIP submissions will be published on the DAC website. WIP submissions are not included in the DAC proceedings and are not considered a DAC publication by ACM or IEEE. But authors should verify submission policies of other conferences and journals. WIP authors are at liberty to submit an extended version of their work to other conferences and to journals without violating any common codes of ethics.

"The DAC WIP Track provides an opportunity for interesting work that is not yet ready for submission for full publication at DAC or other journals. Authors have a great opportunity to network with experts at DAC and to preview their results to the Design Automation community," said Soha Hassoun, DAC Technical Program Co-chair. "It is especially attractive to researchers and students seeking feedback in smaller groups."

Full details of the WIP track, including full details for submission and the deadlines is at <http://www.dac.com>.

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Geometric to Display Intelligent Machining Products at METAV 2012

15 February 2012

[Geometric Limited](#) will showcase the latest release of its solid-based CNC programming solution, [CAMWorks®](#) 2012, along with its new 2.5D CAM package, [CAMWorksXpress®](#)2012 at the [METAV 2012](#), Hall 13 - booth #125, in Düsseldorf Trade Fair Centre, Germany from February 28 - March 3, 2012.

"CAMWorks' seamless integration with SolidWorks® enables intelligence and automation in design as well as the manufacturing processes. The newly launched 2.5D CAM package, CAMWorksXpress, is an ideal solution for those who seek an affordable CAM solution that includes essential machining features", said Robert Hutter, Director, Product Sales - Europe

During the event Geometric will showcase:

CAMWorks 2012:

CAMWorks 2012 supports SolidWorks 2012, and contains improvements in the functionality to enable faster and easier programming, and to produce more efficient tool paths for improved machining productivity. CAMWorks 2012 now includes a new Nesting add-on, which is integrated with SolidWorks to create optimized nested layouts of Parts and/or Assemblies. Using CAMWorks Nesting a

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user can select Single/Multiple sheets, specify the part-to-part distance, and sheet margin/collar. For more information on CAMWorks, please visit <http://www.camworks.com/>.

CAMWorksXpress:

CAMWorksXpress is an ideal solution for programmers and machinists, as well as new users, who are looking for a 2.5D machining CAM package. CAMWorksXpress is a powerful yet inexpensive tool that runs inside SolidWorks and provides the high-powered features required for machining efficiently. For more information about CAMWorksXpress, please visit <http://www.camworksexpress.com/>

About METAV

METAV is a bi-annual, European event for manufacturing technology and automation. It displays the entire scope of state-of-the-art manufacturing technologies for the metalworking industry – from machine tools, precision tools, automation technology to complete systems made to customers' specification.

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Infinite Z Showcases Technical Proof of zSpace Running on Dassault Systemes 3D Technology at SolidWorks World

13 February 2012

Infinite Z, Inc.,® a technology provider that enables virtual-holographic 3D imagery to bring designs to life, announced a technical proof of concept of the zSpace® immersive user experience running with Dassault Systemes 3D technology. The technology's debut will take place this week at SolidWorks World 2012, being held from February 12-15 at the San Diego Convention Center. The fourteenth annual SolidWorks World Conference brings together designers, engineers, managers and partners to discuss ideas, trends and the technology shaping the future of product design.

With this demonstration of zSpace based on Dassault Systemes' CATIA Geometric Modeler, Infinite Z delivers on the demand for additional industry applications of its zSpace technology. Infinite Z's platform, zSpace, provides a highly realistic visualization experience that enables designers and engineers to directly interact with virtual holographic simulations as if they were real physical objects, which accelerates the design and development process and increases productivity. The companies welcome feedback about the demonstration as they test and evaluate potential prospects for the technology in consumer experiences through Dassault Systemes 3DVIA Shape, or professional solutions through the CATIA or SolidWorks solutions from Dassault Systemes.

"Infinite Z's zSpace system marks a milestone in the democratization of immersive technologies for professionals and enterprises," said David Nahon, head of immersive virtuality (iV) technologies for Dassault Systemes. "This partnership perfectly fits our vision to bring innovative turnkey solutions to our customers in the 11 industries that we serve."

"zSpace provides an incredibly responsive way to view, select and manipulate 3D objects," said Scott Harris, co-founder of SolidWorks and strategic adviser to Infinite Z. "Being able to look around an object in zSpace is much easier than manipulating a view with a mouse. zSpace allows the user to be spatially aware and directly move around in space, which is much more natural than using separate translation and rotation functions. Basically, any way that you manipulate real physical objects is more natural than the contrived techniques used with a flat computer screen and mouse. Why not work that way all the time?"

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"We're thrilled to partner with Dassault Systemes to test additional software applications for zSpace and explore new use cases and audiences for lifelike 3D experiences," said Paul Kellenberger, CEO of Infinite Z. "The potential to integrate zSpace with Dassault Systemes V6 platform gives us an avenue to explore non-traditional uses of 3D applications and move toward establishing entirely new forms of communication, teaching, learning and consumer engagement. zSpace has a strong hold in industries like CAD, geospatial/GIS, healthcare, data visualization, and gaming and entertainment. Partnerships like this with Dassault Systemes are critical to expanding the potential for 3D experiences."

In addition to the demo of zSpace running at SolidWorks World, a demo will be shown at Laval Virtual, March 28-30 in Laval, France. For more information about zSpace go to <http://www.zspace.com>.

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Inforbix Announces Breakthrough Product Data Apps at SWW 2012 That Revolutionize How SolidWorks Users Extract More Value from Engineering and Manufacturing Data

13 February 2012

[Inforbix](#) is announcing two new products data apps that seamlessly aggregate product data from different file types, sources, and locations. The new Inforbix apps will help customers get more out of their product data and become more productive while improving decision-making. Inforbix will announce the apps at SolidWorks World 2012 in San Diego, California, Feb. 12-15.

"We are delighted to be a part of SolidWorks World 2012. Inforbix is proud to be a SolidWorks partner, and together with SolidWorks will help provide our customers excellent product data access capabilities," CEO Oleg Shilovitsky said.

Inforbix announces the immediate availability of two new apps: Inforbix Charts and Inforbix Dashboard. These apps are in addition to Inforbix Search and Inforbix Tables released in October 2011. For a preview of Inforbix apps, visit <http://www.inforbix.com/product/>.

"With Inforbix Charts and Inforbix Dashboard, Inforbix continues to deliver the industry's only cloud-based product data access apps. All Inforbix apps are designed from the ground up using manufacturing customer feedback, so we know they will begin adding value to both our existing and new customers from the moment they start using them."

The company is also announcing the expansion of data access to Solidworks EPDM, making it possible for SW customers to get more from data managed by their PDM system.

Manufacturing companies are drowning in the growing amount of product data generated and found within different file types, sources, and company data-silos. They are increasingly using a mix of vendor packages and solutions, all of which generate, contain, manage, or store product data, creating a hodgepodge of resources to be combed through. Product data generated in a typical manufacturing company can be both unstructured (valuable BOM and assembly information spread out across different CAD drawings) and structured (CAD drawings within a PDM or PLM system). Inforbix apps are tools that address specific product data tasks such as finding, re-using, and sharing product data. Inforbix can access product data within PDM systems such as ENOVIA SmarTeam and Autodesk Vault and make it available in meaningful ways to CAD and non-CAD users.

All Inforbix apps utilize product data semantic technology that automatically infer relationships between disparate sources of data. For example, Inforbix can semantically connect or link a SolidWorks CAD assembly found within EPDM with a related Excel file containing a BOM table stored on a file server in

another department.

Inforbix Charts visualizes and presents data saved from Inforbix Tables. The product data is presented in charts that include information to help engineers better manage and run processes by identifying trends and patterns and improving data control. For example, Inforbix Charts visually presents the approval statuses of CAD and ECO documents by author, date approved, last modified date, etc.

Inforbix Dashboard dynamically collects and presents important statistics about engineering and manufacturing data and processes, such as how many versions of a particular CAD drawing currently exist, how many design revisions did it take to complete a CAD drawing, or the number of ECOs processed on time. Easy and intuitive to use, Inforbix Dashboard is an ideal tool for project managers.

Customers can access Inforbix apps and their product data online. Current Inforbix customers can immediately begin using the Inforbix iPad app, available for free on the Apple App Store at <http://www.inforbix.com/inforbix-mobile-search-for-cad-and-product-data-on-the-ipad/>. Account access taps existing Inforbix credentials. New users are encouraged to register with Inforbix to enable the iPad app to access product data within their company. The apps soon will be available on Android devices.

A video preview of the iPad app is posted at <http://www.inforbix.com/inforbix-ipad-app-first-preview/>. For more information on Inforbix apps, visit <http://www.inforbix.com>.

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Kenesto Chooses Tech Soft 3D as Cloud-Based 3D Partner

14 February 2012

Tech Soft 3D, announced that Kenesto, a business process automation system for manufacturing, will feature Tech Soft 3D technology. Shown this week at SolidWorks World 2012, Kenesto will use Tech Soft 3D's [HOOPS Exchange](#) for 3D CAD conversion and [HOOPS Visualize](#) for visualization.

Michael Payne, CEO of Kenesto, said, "We chose to work with Tech Soft 3D because they are a proven leader in providing 3D technology to companies like ours. Their HOOPS family of 3D development tools fit seamlessly into our cloud approach, and their platform flexibility will allow us to deploy our breakthrough solution in both the desktop browser and mobile environments."

"The promise of the HOOPS technologies from the outset is to provide our customers with flexible development tools for deploying unique applications in a range of environments, and on a range of platforms," added Ron Fritz, CEO of Tech Soft 3D. "Our 350+ HOOPS customers demonstrate our long history of providing solutions for desktop and mobile environments. With its exciting new approach, Kenesto is the perfect partner to demonstrate our ability to help developers deploy rich applications in cloud environments."

To learn more about Kenesto, visit <http://www.kenesto.com>.

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Luxion Announces KeyShot 3.1: Metallic Paint, HDR Editing, Material Templates and More

13 February 2012

[Luxion](#) announces KeyShot 3.1 and with it an all new 3D rendering and animation options.

Keyshot 3.1 marks the first major update of the release that introduced a patent-pending animation

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system, a revamped user interface and over 600+ new materials. There are an amazing amount of new features in this release that brings designers, engineers and 3D professionals faster and easier ways to create stunning 3D images than ever before. With this update we introduce time-saving new features and improvements including a new, unique metallic paint material, interactive HDR editing that allow real-time editing of the lighting environments, material templates that allow 3D professionals to 'auto-paint' their models, network rendering to queue render jobs and spread them across multiple computers and new compatibility with the 3DConnexion 3D Mouse.

Improved Metallic Paint with real flakes

With KeyShot 3.1 we bring a next generation of metallic paint material that contains visible metallic flakes whose distribution and size can be controlled. This is a unique one-of-a-kind material that creates the most accurate representation of car paint in the industry. This is included with KeyShot 3.1 and as with all materials included with KeyShot, doesn't require any special configuration. The 3D professional simply drags, drops and adjusts color to their liking.

Interactive HDR image editing

KeyShot 3.1 Pro introduces the ability to edit any applied lighting environment in real-time within the KeyShot interface. This allows you more control over the lighting of your scene from brightness and color to location of lights. Functionality includes:

- Adjustment of hue and saturation of HDRI

- Editing of existing lighting information through introduction of innovative pin system

- Creation of new lights

- All edits to the HDRI update inside KeyShot in real-time

- Material templates

KeyShot now recognizes materials that have been set in other 3D software. This new feature automatically assigns materials to the models on import according to the colors and materials assigned in the originating 3D software, drastically decreasing the time it takes to set-up renderings and animations. Key features include:

Automatic template creation based on material assignment inside KeyShot

- Option to create templates manually

- Support for multiple templates per session

- Support for multiple CAD systems as well as plugins (Initially, not all CAD systems may be supported)

Animation improvements

The all new, patent-pending animation system that was introduced in KeyShot 3 will also be greatly enhanced. Key improvements include:

- Drag and drop a single animation onto multiple parts

- Mirroring of single or multiple animations in the time line

- Multi-selection of multiple animations in the time line allowing for interactive adjustment

Certification of KeyShot with 3DConnexion devices

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We are proud to announce that KeyShot 3.1 will be officially certified to work with all of 3DConnexion's devices.

Network Rendering

In addition, we are now offering the ability to speed rendering times with a unique, simple to use, easy to administer Network Rendering Tool. Network rendering is a new, optional add-on for KeyShot 3 Pro that allows 3D professionals to queue their rendering and animations spreading out tasks across multiple computers. Key features include:

Easy setup and maintenance

Network render queue will queue render jobs rather than rendering jobs simultaneously

Add and remove slave machines during rendering

Automatic balancing distributes the render job intelligently according to number of cores and processor speed of the individual computer

PC and Mac compatibility for master, slave and render queue

Availability

KeyShot 3.1 will be available later this quarter.

Meet us at SolidWorks World 2012

Luxion will be at SolidWorks World 2012 in San Diego, California. Stop by booth #406 to see the new features, network rendering and the animation system that speeds up the time to creating stunning visuals.

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ReverseEngineering.com™ 2012 Releases MESH SURFACE Laser Scanning Software at SolidWorks World 2012

11 February 2012

ReverseEngineering.com announces the demonstration of their newest product, MESH SURFACE, to be shown at SolidWorks World 2012 in San Diego, California, at the San Diego Convention Center, February 12 through February 15, 2012 in Booth #404.

ReverseEngineering.com, a Certified SolidWorks Gold Partner reverse engineering plug-in, now supports non-contact measurement capabilities for Point Cloud to Mesh Surface for SolidWorks.

ReverseEngineering.com provides an easy to learn four-step workflow, for mesh surface creation:

1-Set Alignment, 2-Laser Scan, 3-Process Point Cloud, 4-Create Surface Mesh.

-- Optimized dialog boxes allow for quick processing of large point clouds for profile extraction and surface mesh visualization.

-- Process millions of points in seconds for parametric modeling in SolidWorks, while working direct in both SolidWorks Standard and SolidWorks Premium allowing for STL support.

-- Transform and reduce large point clouds for SolidWorks to work with even after the data capture device is disconnected.

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-- Simplify the extraction of geometric entities on digitized models, accelerating the development of parametric wireframe, surface and solid models in SolidWorks.

ReverseEngineering.com 2012 has the ability to integrate with devices such as Faro EDGE , Romer Absolute , Microscribe, 3D Creator, Baces 3D, 3D Scanners, white light 3D digitizers, Faro and Leica laser trackers although the new Mesh Surface is not device or CAD reliant.

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TransMagic Showcases Customer Success at SolidWorks World 2012

13 February 2012

TransMagic, Inc. announced that it is **showcasing its Gold Partner Product, TransMagic PowerPack**, at the **SolidWorks World 2012 Certified Partner Theater**. The presentation focuses on their joint TransMagic/SolidWorks customer, TeraFlex Suspensions, and demonstrates how [TeraFlex](#) uses TransMagic to achieve high quality solid models from non-native OEM CAD data. **Visit Booth #708 to learn more about how TransMagic products fuel production efficiency for TeraFlex and help them maximize market opportunities.**

In the process of designing and manufacturing rugged off-road automotive aftermarket components, TeraFlex experienced problems using native OEM CAD data that caused many hours of work-arounds. At TeraFlex, TransMagic has become an essential business tool for success. “Before we found TransMagic, we could not import Catia files into SolidWorks,” states Bryce Calvin, Engineering Manager of TeraFlex. “Using IGES as an intermediary file format used to introduce many time-consuming complications. With TransMagic, rather than dealing with ugly surface models, we bring CATIA files straight into SolidWorks as SOLID models. Exporting the parts we need saves us hours in processing time,” describes Calvin. “Now we are able to take control of the file conversion process and maintain the complete assembly structure. Isolating the parts that we need for the design is easy!”

The TransMagic PowerPack for SolidWorks combines the design power of SolidWorks software with the multi-CAD freedom of TransMagic to unleash true design freedom. Opening CATIA V5, NX or JT or any major 3D file format into any other software is a breeze with TransMagic. TransMagic converts 3D CAD data into a variety of formats and repairs the issues caused by the way different software applications interpret geometry. This process eliminates hours of manual rework, or remodeling that is otherwise required to create usable solid models, thus reducing the barriers created by model incompatibilities.

On one hand, TransMagic supports high quality model translation, visualization, repair and collaboration. On the flipside of the tool, TransMagic enables complete automation and rapid integration into PLM systems to transform difficult internal processes using automatic unattended features. Create a 2D image library of all your CAD data to add to your database for faster visual searches and other downstream usage such as data archival, file validation and more.

Supported Formats:

TransMagic reads and converts all major CAD files into multiple formats as high quality models usable in any 3D software including CATIA, SolidWorks, JT, UG/NX, Inventor, Pro/E, and many more. TransMagic also exports files into several non-CAD formats such as STL, OBJ, PLY, HSF, PDF and 3D HTML.

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Tribold Turns up the Heat for Enterprise Product Management in Barcelona at Mobile World Congress 2012

16 February 2012

Enterprise Product Management (EPM) company, Tribold is promoting EPM as one of the hottest BSS/OSS topics of 2012 to Communication Service Providers (CSPs) at this year's Mobile World Congress in Barcelona. At the event, Tribold will be discussing the wide range of benefits to CSPs through adoption of Enterprise Product Management (EPM) with executives from mobile network operators, industry press and analysts, leading systems integrators and OSS/BSS software providers.

As first movers in the Enterprise Product Management telecoms sector, Tribold has defined end-to-end product and service management and in 2011 Tribold experienced spectacular growth. Going into 2012, Tribold claim EPM will be one of biggest OSS / BSS growth areas. Tribold EPM users have seen improvements in product management performance enabling their business to decrease cost to market, reduce time to market, improve quality of the product management process and increase ability to support product and service innovation.

“With the mobile industry extending beyond communications to social connectivity and entertainment, CSPs are seeking even more product and service innovation and with an ever shorter time to market,” said Simon Muderack, CEO at Tribold. “Empowering CSPs with a single control point for products and services enables them to rapidly react to those market challenges while understanding the underlying product management metrics such as profitability and predictive analysis.”

Tribold executives are available to discuss and showcase its Tribold EPM solution. To meet Tribold at Mobile World Congress, please contact marketing@tribold.com

Tribold is a leading provider of Enterprise Product Management (EPM) software specifically developed for Communication Service Providers (CSPs). Tribold EPM™ is based on a Centralized Product & Service Catalog (CPC) and a Product & Service Lifecycle Management (PLM) solution.

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Financial News

Delcam's 25th Sales Partner Meeting Celebrates Record Sales

14 February 2012

Delcam's 25th Annual Sales Partner Meeting, which was held in Stratford last week, attracted over 250 delegates from 33 countries, the highest attendance in the company's history. This record number of delegates for the event reflected Delcam's continued growth, both in terms of its geographic reach and in the increasing diversity of the applications of its range of software.

Chief Executive, Clive Martell delivered the opening speech, during which he announced that the company's turnover last year had exceeded £40 million for the first time. Sales for the second half of 2011 had set a new record for a six-month period, continuing a rising trend in sales that had seen record levels in each of the previous three six-month periods.

The rise in revenues would lead to further expansion in Delcam's software development team, with Mr.

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Martell promising to continue to invest heavily in R & D. “Even though we have the largest development team in the CAM industry, with more than 200 software developers, we will continue to increase our expenditure in this area,” he claimed.

The results of this investment were demonstrated over the three days of the meeting. Major releases are planned for the full range of the company’s software during the coming months, both for the established manufacturing products and for the newer systems for the healthcare industry.

At the awards ceremony during the meeting, Delcam USA was presented with the Top Sales Partner for 2011, further evidence Delcam’s continued growth in the country that remains the world’s biggest market for CAD/CAM.

Mr. Martell also told the Meeting about his ambitious plans for the year ahead, with higher sales growth being targeted in all areas of the company’s business. He felt that this was quite achievable with global machine tool sales continuing to increase, a trend which, historically, has led to growing CAM software sales.

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Mentor Graphics Corporation to Release Fiscal Q4 2012 Financial Results February 28, 2012

14 February 2012

Mentor Graphics Corporation announced they will release financial results for the company's fourth fiscal quarter, ended January 31, on Tuesday, February 28, 2012 at approximately 5:00 am Pacific.

•Live audio webcast at http://www.mentor.com/company/investor_relations. Please register at this website prior to the scheduled call time of at 5:30 am Pacific.

•Conference call replay: Begins February 28, 2012 (7:30 am Pacific); Ends March 6, 2012 (11:59 pm Pacific). USA 800-475-6701; International 320-365-3844; Access code: 237661

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Nemetschek Enjoys Renewed Growth of 10 Percent

17 February 2012

In 2011, Nemetschek AG, Europe's largest provider of software for architecture and construction, increased revenues by 10 percent to 164 million euros. According to provisional figures, the operating result (EBITDA) was more than 39 million euros, compared with 37 million euros in the previous year. The EBITDA margin was 24 percent, as forecast in March 2011. As a result, the group has again achieved the highest group earnings in the company's history.

Clear increase in revenue from license sales and maintenance agreements

In 2011, revenues from license sales increased by 9 percent to 81 million euros. Revenues from long-term maintenance agreements have been growing continuously for years, and with increasing momentum: In 2011, it rose 11 percent overall to 74 million euros. As a result, more than 45 percent of Nemetschek's revenues are recurring business. In the group's non-German markets, revenues increased by 9 percent to 96 million euros, Nemetschek achieved significant increases in France, the USA and Japan, for example. Thanks to strong growth in the building industry in Germany, revenues at home increased by 11 percent to 68 million euros.

The Nemetschek Group was able to grow in the two global business units Design (software for

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architecture and engineering) and Multimedia (software for visualization and animation), in particular. In the Design unit, revenue rose 9 percent to 133 million euros; the EBITDA margin in this segment was 21 percent, compared with 22 percent in the previous year. In the Multimedia business unit (the Maxon Group is behind this), revenues increased by 26 percent to almost 14 million euros, and the EBITDA margin reached a record figure of 44 percent (previous year 38 percent). Maxon's success is due to a more streamlined and better positioned product range and the introduction of maintenance agreements, besides the company is profiting from the ever broader media offering worldwide.

In the Build segment (solutions for ERP and project management) revenue rose slightly to almost 14 million euros with an EBITDA margin of 35 percent. In the Manage business unit (ERP software for real estate management), revenue increased slightly to almost 4 million euros, while the EBITDA remained at the previous year's level of 0.3 million euros.

Net income higher than expected

Following the rise in revenues, the Nemetschek Group achieved an EBITDA of more than 39 million euros in 2011 (previous year: 37 million euros). The operating costs were 139 million euros (previous year: 126 million euros). The higher personnel expenses of 71 million euros (previous year 64 million euros) resulted mainly from a policy of workforce expansion in various subsidiaries and the increase in variable salary components caused by the increase in revenue. The other operating costs were round about 50 million euros (previous year: over 44 million euros). The reasons for this were amongst others the higher costs for the market launch of new product versions in the subsidiaries and revenue-dependent costs for dealer commissions.

By the end of 2011, the headcount in the Nemetschek Group had increased to 1,173 employees (previous year 1,076).

According to the provisional figures, the operating result (EBIT) rose by 6 percent to 29 million euros. As a result of tax rate changes in Hungary, the group also posted income from deferred tax of 1.4 million euros, resulting in a higher rise in net earnings of 12 percent to more than 22 million euros; after minority interests, it was just under 21 million euros (group shares). The earnings per share are thus 2.16 euros, compared with 1.97 euros in the previous year.

Free cash flow increased to around 32 million euros

The strong operating result is also reflected in the cash flow: Compared with the previous year, the cash flow from operating activities improved by 15 percent to 37 million euros. The cash flow from investing activities was almost 6 million euros. As a result, the free cash flow was almost 32 million euros.

Compared to December 31, 2010, the liquid assets rose to almost 34 million euros and now exceed the remaining loan from the Graphisoft acquisition (5 million euros) by 29 million euros. The equity ratio of the Nemetschek Group is 64 percent (December 31, 2010: 57 percent).

Nemetschek will publish the complete 2011 annual report on March 30, 2012; management will also take this opportunity to provide an outlook for the current financial year.

About Nemetschek

The Nemetschek Group is Europe's leading vendor of software for architecture and construction. The graphical, analytical and commercial solutions cover a large part of the entire value chain in construction- from the planning and visualization of a building and the construction process itself through to building management. The software programs range from CAD solutions for architects and engineers to construction software for cost planning, tenders, awarding of contracts and execution. These are complemented by solutions for facility and real estate management as well as visualization software for architects and the movie industry.

The company was founded in 1963 and employs over 1,100 people worldwide. Its products are used by more than 300,000 customers in 142 countries worldwide. In 2011, Nemetschek achieved revenues of

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164 million euros and an operating result (EBITDA) of 39 million euros.

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Rand Worldwide Reports Second Quarter Fiscal Year 2012 Results

14 February 2012

Rand Worldwide, Inc. announces its financial results for the three and six months ended December 31, 2011.

For its second fiscal quarter ended December 31, 2011, Rand Worldwide, Inc. reported total revenues of \$22.5 million as compared with \$21.7 million in the same quarter for the prior fiscal year. The Company's overall gross margin percentage was 47.0% and total selling, general and administrative expenses were \$8.8 million, a slight decrease from the \$9.0 million reported for the three months ended December 31, 2010. As a result, the Company reported net income of \$1,039,000, or \$0.02 per fully diluted share, compared to net income of \$1,272,000, (\$0.02 per share) for the same period in the prior year.

For the six months ended December 31, 2011, total revenues were \$44.4 million as compared with \$38.5 million in the prior year, an increase of 15%. Year to date net income was \$1,441,000, or \$0.03 per fully diluted share, a significant improvement over the \$899,000 loss, or \$(0.03) per share, reported for the same period in the prior year.

Lawrence Rychlak, president and chief financial officer at Rand Worldwide commented, "This proved to be another very good quarter of operating results as evidenced by the high levels of gross margin as well as a healthy bottom line that exceeded our plan. It is important to remember that in December of last year, we recorded a portion of a very large sale that resulted in extraordinarily high revenue and net income levels, and despite not having such a large contributing factor in this quarter's results, we still reported an almost 4% increase in revenues and over \$1 million of net income. These results translated to a healthier balance sheet making us a stronger company and better positioned us to realize the benefits of stronger sales in the markets in which we operate."

"We are particularly pleased to see the almost 18% increase in product sales for the quarter when compared to the same period in the prior fiscal year," said Marc Dulude, chief executive officer at Rand Worldwide. "The majority of the product revenue increase resulted from the growing popularity of the Autodesk Suite products which provide customers a great value proposition. Additionally, the company's ASCENT courseware sales increased significantly during the quarter when compared with the same period in the prior fiscal year as a result of the continued development of global distribution channels for our courseware."

Conference call details

Rand Worldwide will hold a conference call to discuss its first quarter results at 11:00 am ET on Tuesday, February 14, 2012.

For the unabridged press release with Financial Tables click [HERE](#).

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Implementation Investments

Bharat Oman Refineries Limited Employs Bentley's ProjectWise to Save Time and Reduce Project Risk

13 February 2012

Bentley Systems, Incorporated announced that Bharat Oman Refineries Limited (BORL) has implemented ProjectWise, Bentley's collaboration and work-sharing platform, to facilitate the design, construction, and ongoing capacity expansion of its recently commissioned 6 million metric ton refinery in Bina, Madhya Pradesh, India. BORL found that managing and sharing the project's more than 1 million documents and 100 gigabytes of data among multidisciplinary teams and suppliers was a monumental undertaking. Searching for and accessing this engineering content – which encompassed a variety of formats including Microsoft Office files, AutoCAD, and JPG – and validating that it always reflected the most current technical information was consuming too much time and money. Through their use of ProjectWise, BORL's project teams and stakeholders can now find and share the information they need far more easily and efficiently, improving quality, reducing rework and costs, and helping them meet project deadlines.

“Using ProjectWise to track and manage project content allows us to facilitate the reuse of design and engineering information, and reduces our design iterations,” said V. N. Herwadkar, vice president, Corporate Planning & Strategy, BORL. “Our design engineers are now anticipating the next phase of our ProjectWise implementation, which will include a web server to provide us with the scalability to publish and access our engineering content through the Internet.”

Added Gita Ramachandran, vice president, ERP & IT, “ProjectWise lets our BORL project teams maintain collaborative workflows, which – on a project of this scale – is a huge undertaking. For example, it enables us to receive revisions from project management consultants, process licensors, equipment suppliers, and multiple other contractors and quickly and securely share that information with authorized users at the job site.”

Through its use of ProjectWise, BORL is now able to cost-effectively manage, quickly access, and securely share work-in-progress engineering content among its civil engineering, operations and maintenance, planning, and other teams engaged in this ongoing project. Moreover, all authorized project stakeholders can participate in dynamic project reviews confident that their comments and feedback are always synchronized with the original source and author to resolve issues quickly and effectively. This is accomplished in a closed loop, returning accurate feedback in context to all relevant designers. As a result, each project team member always has access to the most up-to-date project content for decision making, thereby reducing errors and project risk. Additionally, because ProjectWise is interoperable, the content can be in a wide variety of forms and formats – from CAD drawings and other paper documents to DGN and DWG files, PDFs, Microsoft Office files, and much more.

Commenting on BORL's implementation of [ProjectWise](#), Atanu Pattanayak, Bentley territory executive, South Asia, said, “Through its deployment of ProjectWise on this complex refinery project, authorized BORL team members are able to accelerate work in progress using their architectural, engineering, and construction authoring tools and workflows of choice. This same capability enabled the team to execute and deliver the initial project ahead of schedule.”

The refinery, which was constructed at a cost of about US\$2.4 billion, includes a crude oil supply system comprising a single-point mooring system (SPM), crude oil storage terminal at Vadinar, District

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Jamnagar, Gujarat, and a 935 kilometer-long cross-country pipeline from Vadinar to Bina. BORL is a joint venture company promoted by Bharat Petroleum Corporation Limited (BPCL) and Oman Oil Company Limited (OOCL) as its investment partner. The new refinery will boost BPCL's processing by more than 30 percent.

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Ellery Homestyles Enhances its Global Product Development Process with Computer Generated Solutions' BlueCherry Software

16 February 2012

[Ellery Homestyles](#), a leading home fashions supplier, and the nation's leading provider of energy-saving, noise-reducing, blackout curtains marketed under the Eclipse brand has entered into an agreement with [Computer Generated Solutions](#) to implement the Infinity BlueCherry PLM Suite software. This new software will provide key benefits to Ellery including improved time to market, enhanced customer service, key management controls and reporting ability, as well as overall improved procedures and processes.

The software will give Ellery the ability to accurately evaluate its product development process and product life cycle by providing a centralized location for all data throughout the complete supply chain process.

"Ellery Homestyles is excited with the selection of the CGS Infinity BlueCherry PLM Suite. After evaluating alternative solutions we feel that BlueCherry offers us the latest technology and functionality. It also presents better visibility of our processes which will help improve our time to market and centralize our development and PLM information," said Michael Liff, VP of Operations at Ellery Homestyles.

The CGS BlueCherry software is currently used by other leading home furnishings and consumer products businesses.

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Intergraph® SmartPlant® Enterprise Solutions, Including SmartPlant 3D, Used by Fluor on 22 Projects

14 February 2012

Fluor® Corporation of Irving, Texas, an Intergraph® customer and one of the world's leading engineering, procurement, construction and maintenance companies, continues to implement [Intergraph® SmartPlant® Enterprise solutions](#) as its project platform for an increasing number of its global projects.

[Fluor](#), an Intergraph customer for more than 30 years, relies on proper planning, training and business mindset to successfully deploy SmartPlant Enterprise, an integrated solutions suite that provides full design, construction and engineering data management capabilities for the creation, maintenance and safe operation of large-scale process projects. Fluor currently has 22 ongoing projects that are using SmartPlant technology.

Intergraph and Fluor signed a five-year Global Alliance Agreement (GAA) together. The agreement covers the Intergraph SmartPlant and SmartMarine Enterprise software suites, including SmartPlant 3D,

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PDS®, SmartPlant Foundation, SmartPlant P&ID, SmartPlant Instrumentation among numerous other Intergraph solutions.

"Intergraph's solutions have been a part of our project execution toolbox for many years, helping us deliver superior capital projects to our clients," said Peter Moore, Fluor's vice president of Project Execution Services. "The SmartPlant Enterprise suite and automation capabilities help us to maximize a distributed project environment by enforcing consistency in the project set-up and execution processes."

Fluor currently has more than 850 people trained in the SmartPlant 3D and SmartPlant Foundation solutions, with the majority of those employees located in the Asia-Pacific region. "Regardless of the technology, our designers have to be proficient with our project execution tools," Moore said. "We have developed a robust training and support structure to support our workforce in getting the best product out of these tools for our clients."

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Magma Enables ZiiLABS to Double the Performance, Cut Power by Half on 100-Core ZMS-40 Processor

16 February 2012

Magma® Design Automation Inc. announced that ZiiLABS, a pioneering media processor and platform company (a wholly-owned subsidiary of Creative Technology Ltd), has implemented its 14th design using Magma's software. The recently announced 100-core ZMS-40 StemCell Media processor combines 96 of ZiiLABS' StemCell media processing cores with four 1.5GHz ARM Cortex™-A9 CPUs to deliver stunning multi-tasking application and media processing performance and is optimized for Android-based handheld and tablet computing applications. By doubling the number of StemCell Media processors compared to the previous ZMS-20, the ZMS-40 delivers twice the peak media performance. Alternatively, the ZMS-40's larger array can be run at lower clock speeds to achieve the same performance as the ZMS-20 while consuming up to 50 percent less power. The Magma software was instrumental in enabling ZiiLABS to tape out the ZMS40 while maintaining an aggressive design schedule. As a result of this latest success, ZiiLABS will deploy the Talus® 1.2 IC implementation system, Tekton™ static timing analysis, QCP™ extraction, FineSim™ SPICE circuit simulation and Quartz™ DRC/LVS physical verification solutions on its next-generation designs.

In 2000 ZiiLABS, then 3Dlabs, was the first company ever to tape out a design using Magma's then nascent IC implementation software. In commemoration of the first tape out and in recognition of ZiiLABS' latest design milestone, Magma presented ZiiLABS' Vice President of Technical Strategy, Paul Pontin, with the SiliconOne Leadership award.

"For over a decade, Magma has been instrumental in allowing us to meet our customers' ever-increasing demands for innovation, phenomenal performance and value," said Pontin. "Magma software continues to provide the most advanced features, capacity and turnaround time and the company's responsive and professional engineering support gives us complete confidence in our ability to achieve silicon success."

"Our close, long-term relationship with ZiiLABS has been invaluable in helping us understand the changing requirements of the exploding handheld and tablet computing market," said Premal Buch. "As a result, we've been able to leverage the tight integration enabled by Magma's unified datamodel to develop a flow that provides better efficiency and higher productivity while streamlining deployment."

Magma: An Advanced Flow for Complex, Next-Generation Designs

The Magma flow provides several key capabilities that ensure better quality of results and faster turnaround time for complex, next-generation designs. The Talus IC implementation solution includes advanced placement technology, multi-mode multi-corner (MMMC) clock tree synthesis and advanced on-chip variation (AOCV)-aware full-flow MMMC optimization, allowing designers to meet top-level timing goals and ensure that total chip area is minimized. Tekton performs extremely fast, multi-scenario analysis on a single machine and provides the accuracy of existing sign-off solutions. The QCP extractor provides near-linear scalability on multi-processor machines as well as highly efficient distributed processing to handle increasing design sizes and the exploding number of corner scenarios at 28 nm. FineSim SPICE multi-CPU/multi-machine circuit simulator enables the simulation of very large analog/mixed-signal designs with true SPICE accuracy. Quartz DRC/LVS is the first truly scalable physical verification solution, able to provide turnaround time that is up to an order of magnitude faster than existing solutions while using existing compute resources.

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Mori Seiki Delivers 5-Axis Productivity with One Hit 5-axis Machining

13 February 2012

Subcontractor Pro-Tek Engineering has had its Mori Seiki NMV3000 5-axis vertical machining centre for twelve months. Already it is fully loaded and the company is thinking of purchasing an extra one.

Pro-Tek, based in Bidford –on- Avon, Warwickshire, serves the defence, aerospace, mining, oil and gas and telecommunications industries and is part of the SC21 initiative and has ISO 9001 certification. Managing Director Kevin Radbourne says, “We already have Mori Seiki lathes and we are impressed with their build quality and good design. More complex work drove us to look at 5-axis machining as the tolerances on these new jobs were so tight that we needed to finish parts in one operation. If we had tried to complete them with multiple setups it would have been virtually impossible to maintain sufficient accuracy.”

The NMV3000’s driven at the centre of gravity technology, rigid box in box construction and octagonal ram were a big attraction to Pro-Tek. Kevin Radbourne adds, “The Mori Seiki is very solid and much sturdier than conventional machines that use rails. It is also full 5-axis and not 3+2 indexing like some VMCs. Furthermore, the 60 tools on the machine make it easier to complete parts in one hit. Up to now the most tools we had available to us was 30. Installation was straight forward, two to three days and we were up and running. Reliability is great too, we haven’t had a single problem.”

Pro-Tek’s customers are impressed with the new machine. Kevin Radbourne says, “Our customers want to come and see the machine in action. It has already created extra work from our existing clients and we are being asked about additional capacity, so we are looking at adding an extra shift and another Mori Seiki. The quality of the machine speaks for itself, accuracy and repeatability are fantastic and we anticipate pay back within two years. Without the NMV3000, we could not have completed some of the new jobs we have won within the timescale, and to the required accuracy and finish.”

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MTU Selects Altair as its Strategic Partner for CAE Pre- and Post-processing and HPC Workload Management Solutions

14 February 2012

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[Altair Engineering, Inc.](#), announced that [MTU Aero Engines](#), a leading provider of aero engines for the civil and military aircraft industry, has selected [HyperWorks](#) as its primary strategic solution for CAE pre- and post-processing and [PBS Professional](#)® for high-performance computing (HPC) tasks.

HyperWorks is Altair's comprehensive simulation platform for rapid design exploration and decision-making. MTU selected HyperWorks following a year-long enterprise benchmark that deeply investigated all major CAE commercial software packages. As a result, MTU will deploy the HyperWorks modules [HyperMesh](#) and [HyperView](#) across the bigger part of its development groups worldwide, entirely replacing its former commercial pre- and post-processing solution.

PBS Professional, Altair's commercial-grade workload management and job submission solution, provides a flexible, on-demand cloud computing environment that allows enterprises to easily share distributed computing resources. PBS Professional will serve as MTU's strategic workload management solution, handling job distribution and scheduling of high-performance enterprise computing resources.

"Selecting Altair has been a strategic decision for MTU," said Dr. Hans-Peter Hackenberg, MTU's manager of structural mechanics, thermal analysis, air and oil systems. "We were looking for a long-term partner able to provide us with the best tools on the market as well as with sound technical know-how in the aero engines domain and continuous support to integrate the software into our processes. HyperWorks has demonstrated market leadership in modeling and visualization technology, which will help us to increase productivity and quality in product development. Moreover, best-in-class existing multi-solver interfaces to third-party solvers and customized interfaces to in-house tools will allow us to harmonize processes and tools in the structural and thermal analysis environments."

"In addition to HyperWorks, we chose PBS Professional for our high-performance computing needs," said Dr. Hartmut Scheitle, from MTU's IT department for CAE. "As the number of cluster CPUs continued to rapidly increase, we saw the necessity to find a workload management software able to provide the needed functionalities and robustness, and at the same time, minimize licensing costs. Altair's licensing system has allowed us to achieve this goal."

Erwin A. Pignitter, senior vice president and CIO of MTU Aero Engines, outlined, "MTU's high technology products require an optimal integration of IT-tools, processes and IT-infrastructure. Powerful CAE-tools like HyperWorks help us to follow that strategic direction."

"We are very pleased with MTU's decision and are looking forward to working with the company to integrate our tools into its development process," said Dr. Uwe Schramm, country manager for Altair Germany. "A growing number of aerospace manufacturers and suppliers turn to HyperWorks; and with our offerings in engineering services, our support and cloud-computing capabilities, I am sure we will be able to satisfy their needs, including the required customization, training, interfaces and support. Being an engineering company ourselves, we speak their language, understand their needs, and are able to provide them with the tools and support they ask for."

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PSA Peugeot Citroën Improves Powertrain Digital Manufacturing Efficiency with Dassault Systèmes Solutions

16 February 2012

[Dassault Systèmes](#) announced that PSA Peugeot Citroën has deployed DELMIA in its powertrain division, extending Dassault Systèmes' footprint in the digital manufacturing domain. Replacing solutions from the competition, DELMIA now supports assembly simulation, painting, factory layout, stamping and powertrain. PSA Peugeot Citroën works with the same tools and methodologies in all major departments of the group.

Within the last few years, PSA Peugeot Citroën has introduced key technological innovations for powertrain, including significant R&D investments to develop and market a new generation of engines and transmissions. For example, the group is starting the production of a new DCT (Dual Stock Transmission) gear box with a double clutch, involving Dassault Systèmes' DELMIA.

To support innovation and increase business agility, it is therefore crucial for PSA Peugeot Citroën to be able to make radical changes early in the powertrain manufacturing process without compromising the production schedule. DELMIA strongly contributes to this objective by ensuring high-level planning reliability along with optimized implementation times and costs. As a result, the group is able to master powertrain development times, reduce development and operating costs, optimize resources and investments, while improving quality. They also can perform economic simulations and evaluate production costs early in the development process.

“The Atrium project has enabled us to standardize what were, in the past, heterogeneous work methods throughout the group,” said Emmanuel Chamouton, Powertrain, Digital Engineering and Metrology, PSA Peugeot Citroën. “This is an important step which today involves 400 users in over seven production sites. Thanks to years of close and successful cooperation between PSA and Dassault Systèmes in digital manufacturing, DELMIA now fully supports most of our manufacturing processes. Just nine months after implementation, we have already seen the benefits. The adoption of DELMIA in our powertrain division gives us a flexible and powerful solution, company-wide, that provides us with considerable advantages.”

“The key success factors of the Atrium project were directly linked to DELMIA's capabilities in terms of performance in a multi-site context, reliability of the solution, as well as acceptance of the tool by the entire Atrium user community - from process engineers to shop floor workers - thanks to DELMIA's intuitive user interface,” declared Jean-Marc Daudet, Powertrain, Atrium Supervisory Staff Project Manager, PSA Peugeot Citroën. “The way change management has been managed by the project team was also key to the successful deployment of the solution.”

“Following a successful experience with PSA in the Final Assembly domain, PSA had a high level of expectation for value in powertrain. Thanks to a strong collaboration between PSA and Dassault Systèmes, we have been able to confirm the high expectations in a short timeframe and we are very pleased with the value PSA is reporting,” said Olivier Sappin, Vice President, Transportation & Mobility, Dassault Systèmes. “Dassault Systèmes strives to provide automotive companies with an integrated end to end powertrain solution to reach zero default from concept to manufacturing.”

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Sale Completed Straight After Demo at Southern Manufacturing

17 February 2012

Following a demonstration of Alphacam CNC machining software at the Southern Manufacturing Exhibition, a West Sussex company immediately became a customer.

Before going to the show, Amorini Components, of Billingham, had seen a YouTube video showing Alphacam and its specialist cabinet door module in action. And following a demonstration on Alphacam's stand at Southern Manufacturing, Area Sales Manager Clifford Ashwin immediately completed the sale.

Amorini inherited an eight-year-old version of Alphacam with the purchase of a second-hand machine, and quickly realised the benefits the latest version could bring to their business of manufacturing high quality doors and drawer fronts for the kitchen trade.

“After we'd given them a full demonstration on our stand, they immediately purchased Alphacam 2012 R1 with Cabinet Door Manufacturing (CDM), which will increase their production flexibility. They simply select a door design, either from CDM's extensive style library or from their own CDM created inventory, and introduce the required parameters.

“Doors and drawer fronts can be produced individually or nested to ensure optimal use of each panel. CDM also has an order-entry facility which provides information for built-in, fully-customizable bar coding and part-labelling functions, as well as for CDM's reporting function, enabling the generation of production management reports.”

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SFI Speeds Response Times and Business Growth with aPriori

16 February 2012

aPriori announced that [SFI](#), a leading OEM parts manufacturer, is leveraging its platform to accelerate [response time and improve accuracy on project quotes](#). With aPriori, SFI is able to deliver more detailed product cost quotes back to its customers faster and its customers are able to make outsourcing decisions faster and with more confidence. SFI's engineering teams also use the information available in aPriori; e.g., routings, tooling requirements, etc., to get a head start on project sourcing and production planning, further accelerating customers' time to market.

.SFI provides contract design, development, supply and value-added services for medium to heavy gauge components to a select group of original equipment manufacturers (OEM) in the agricultural, automotive, construction, industrial, transportation and defense industries. This includes welded parts for commercial automotive manufacturers and vehicle sub-frames for the U.S. military.

“We have a simple motto – ‘1st in, 1st to Win,’” says SFI president Bill Lerman. “Response time is key. Most customers are looking for a quote that's within budget from a supplier they can trust and can count on vs. the lowest possible quote. It's not always about the best price. It's about the best price/value/reliability. aPriori enables us to do that faster and more accurately than our competition.”

“With aPriori, we get ahead of the whole process,” says Hashim Alsaffar, new product launch engineer at SFI. “We can respond more quickly to customer requests for quotes, respond to more requests overall, and equally important, see immediately whether or not a job is really in our sweet spot. aPriori makes our team and our customers more knowledgeable about the requirements of a project. This makes us a

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better, value-added supplier and has a positive effect on the customer's overall time to market.”

With aPriori, SFI can quickly analyze any part or product from a [CAD model](#) and break it down to the lowest possible level of cost detail. aPriori works with 3D CAD models generated by any major CAD modeling system on the market today, including: Pro/ENGINEER, CATIA v5, Siemens NX, Solidworks, SolidEdge and Inventor to name a few. No matter what type of CAD model the customer sends, aPriori can quickly open that model and generate a cost estimate in seconds. Large, complex quote requests that might have taken SFI weeks to respond to can now be done in one to two days. Smaller quote requests can be done in minutes instead of hours or days. SFI also uses the system for prototyping and rough quotes.

For more details on SFI's deployment of aPriori, download the [case study here](#).

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Space Systems/Loral Selects Teamcenter for Development of World's Most Advanced Satellites

14 February 2012

Siemens PLM Software announced that Space Systems/Loral has selected its Teamcenter® software to replace existing applications, and help enable the development of the world's most advanced satellites.

Following a thorough, PLM industry-wide evaluation, Space Systems/Loral made the strategic decision to begin to implement Siemens PLM Software's technology this month – an implementation that will take place throughout 2012 and will ultimately replace its existing product data management systems.

“As part of our commitment to product and process improvement, [Space Systems/Loral](#) has selected Teamcenter as our new PLM platform,” said Mouctar Diallo, vice president of Information Technology, Space Systems/Loral. “We conducted a thorough PLM vendor selection process which resulted in selecting Siemens as it proved to be the best PLM vendor for Space Systems/Loral to partner with.”

“We are proud to partner with the world's leading provider of commercial satellites,” said Chuck Grindstaff, president and CEO, Siemens PLM Software. “Our vision for all of our customers is to provide the technology, services and expertise that will help them make smarter decisions that result in better products; so we are delighted that Space Systems/Loral has joined so many other companies in embracing that vision and migrating to Teamcenter as their company-wide foundation for PLM.”

“This agreement with Space Systems/Loral highlights the market leadership of Teamcenter in the Aerospace and Defense market, but also underscores the role our technology plays in innovation,” said Eric Sterling, senior vice president, general manager, Teamcenter, Siemens PLM Software. “Clearly the world's most widely used digital lifecycle management system, Teamcenter, continues to play a critical role for companies focused on innovation as their mission.”

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VISI Flow Removes Guesswork from Mould Manufacture

17 February 2012

Patented injection moulding analysis ahead of tool production, ensures that a number of components in a water powered rock drill are manufactured to the degree of absolute precision required by mining operations around the world.

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Leicestershire-based Dudley Associates produce a polymer cover that plays a vital role in enclosing the drill's rotary drive mechanism and protects the workings from damage and contamination at the working face of the mine, up to two kilometres underground.

Work Director John Churchard says accuracy of the cover, which is manufactured from 30% long fibre glass filled Polyurethane, is critical: "The flatness aspects are particularly important. As the component has the drive gear running through it, any distortion or warpage would cause the whole drive to bind and thereby have a detrimental effect on the drill efficiency."

He says weld lines and weak points were also crucial factors in making the moulded cover robust enough to cope with the conditions underground while drilling blast holes. It was therefore imperative that the aluminium tool used in the injection moulding process was typical of the high spec, high precision work that makes Dudley Associates specialists in high grade aluminium tooling for a range of industries including automotive, medical and electronics.

Before they start to create such technical moulds, Dudley use VISI Flow (plastic injection analysis and simulation from Vero Software) to optimise the tool design and moulding process parameters. This 'preventative analysis' detects a wide range of potential manufacturing issues such as warpage, weld lines, air traps, filling issues and hot spots, while determining the optimum gating position.

Without it, according to Design Engineer Kevin Steele, many problems would not be identified until the moulding trial: "If there's difficulty filling the part it may mean changing the gate, or even moving the gate and runner. This can't be done on the press, so the mould would have to go back to the toolroom to be reworked, and then back into the mould shop to be sampled again." And that costs time and money.

"VISI Flow catches all problems at an early enough stage so we can make the changes before starting to produce the mould," he says. Taking the guesswork out of mould prototyping with VISI Flow prevents tomorrow's problems today.

When it comes to analysing how moulds for components such as the rock drill cover will perform, Kevin Steele uses the tools within VISI to validate part thickness and remove any features such as small fillets or engravings to ensure optimum flow simulation. Once satisfied with the part quality, the gates are added. "For all but the most complex gating, this is easily done by sketching the centreline of the runner/gates and applying the relevant features. Then the model is prepared for analysis." The material is selected from VISI Flow's database of more than 7,500 polymer grades, and the moulding parameters are set. "I usually run the first analysis based on values suggested by VISI, then I check the results of shear stress, temperature, pressure and frozen skin. These are grouped from 'easy' to 'excessive' and if anything looks problematic I load that value and examine the part to see where the problem is."

Any required parameter changes are made and the analysis is run again until the results are acceptable. For this project, VISI Flow confirmed Kevin Steele's use of a four-position multiple gate going through the centre, but where necessary it will flag up that the gate size or position must be adjusted. "For many parts that's as far as the analysis is taken, but when we need to know more, I'll set up a holding analysis. VISI Flow suggests holding and cooling times, but the fill analysis can also be analysed to look at which areas of the part are frozen off at what time." This is followed by the shape analysis, which he says normally requires no further information unless there is a feature such as a steel insert in the moulding which limits movement.

"The part can then be studied to see where it will distort, and by how much. When comparing different process variables it's useful being able to export an STL file of the distorted part into the CAD system and overlay it, giving a useful visual comparison of the options."

Utilising VISI Flow's host of features in this way gave Dudley Associates a full picture of how the tool would perform in the moulding machine, and gave them the confidence to commit to making the high grade aluminium mould, which now produces the covers on an Engel Victory 300 tonne moulding machine with robot arm.

Dudley's parent company, Peterstow Aquapower, manufactures the drill in South Africa, which operates on untreated water without the need for conventional oil hydraulics or pneumatics. With changing many of the drill components from metal to moulded plastic, it has become extremely compact, portable and manoeuvrable. The closed loop system does not need oil or harmful chemicals, and the specialist Peterstow Aquapower technology eliminates the need for much of the underground infrastructure required for competing technologies, making it significantly more efficient and cost effective.

Post Production Analysis

As well as the pre-production analysis that proved to be so valuable in creating the perfect mould for the drill cover, Kevin Steele also uses VISI Flow's Post-Production Analysis capability when an older mould is already in production and not performing as expected. "Once I've reproduced the issue, I look at various changes to the processing parameters to see what impact they'll have. Doing this with VISI Flow means I can run as many options as required to solve the problem without tying up the machine all day."

The company also has the optional overmoulding module, which recently helped them produce the perfect mould for an electronic bingo computer's casing, which houses the screen players use to mark off their numbers. The casing is PC/ABS with a TPE overmould.

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Product News

Agilent Technologies' Latest Genesys Software Enhances RF System Design

16 February 2012

Agilent Technologies Inc. announced the latest release of its low-cost, high-performance software for RF and microwave board design, [Genesys 2012](#). The updated software provides enhancements in RF system simulation (including electromagnetic, circuit and statistical simulation), plus features to help designers improve the reliability of their systems.

Genesys 2012 simplifies analysis of RF systems with multi-stage conversions that enable system architects to easily visualize spurious signals across a broad frequency sweep.

Along with its unique root-cause-analysis capabilities, Genesys now gives RF system designers unprecedented power to quickly determine the source and path of spurious frequencies across the entire frequency range of the system. This enables efficient troubleshooting of the system architecture and frequency plan during system design, before hardware implementation. That, in turn, eliminates costly hardware rework during system integration.

"Meeting designers' demands for improved RF system design functionality remains a key consideration for Agilent," said How-Siang Yap, Genesys product manager and planner in Agilent's EEs of EDA organization. "Genesys 2012 is the result of customer feedback obtained during our longest early access program involving the largest number of users the program has ever had. The feedback guided

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development of the Genesys 2012 release, resulting in useful features such as a configurable auto-save function to protect Genesys designs from computer or network failures.”

Genesys is the most affordable high-performance RF and microwave design software in the industry. The 2012 release delivers significant improvements to the planar EM simulator Momentum GXF, including a quadrangle mesher to efficiently mesh a planar layout with the fewest number of unknowns. The result is a fast, high-capacity EM solution. Genesys 2012 also provides a one-click link to Agilent’s [EMPro software](#) for immediate full 3-D EM simulation without having to redraw the structure, assign material properties or port locations.

Genesys 2012 provides the widest coverage of circuit synthesis applications to tackle tough designs such as custom notched filters and wideband matching networks. It enhances accuracy and convergence to its circuit simulators by incorporating passivity enforcement in passive models. Monte Carlo statistical analysis results can now be exported into a spreadsheet for further analysis and reporting.

U.S. Pricing and Availability

The Genesys 2012 release is now available for download. Pricing for the software starts at less than \$4,000.

For information about the Genesys RF and microwave design software, go to <http://www.agilent.com/find/eesof-genesys>.

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Altair and Ontonix Offer Complexity Management Solution for Achieving Simple and Robust Design

13 February 2012

[Altair](#) announced it has partnered with Ontonix to offer [OntoNet™](#) complexity management solutions in the HyperWorks Partner Alliance (HWP). The partnership will enable Altair HyperWorks customers to further optimize the product design process and analysis.

Altair HyperWorks customers can access OntoNet™ through the [HWP](#), a suite of third-party applications that can be accessed with the same units used to invoke HyperWorks software. The flexibility of these HyperWorks Units empowers users to deploy the largest and most complete suite of computer-aided engineering (CAE) applications available at no incremental cost or long-term commitment.

"If CAE is to cope with the inevitable increase of product complexity, then complexity must enter the CAE loop. High complexity is a prelude to inefficiency and vulnerability; therefore it becomes necessary to use a measure of product complexity as a design attribute," said Dr. Jacek Marczyk, founder and CTO of Ontonix. Dr. Marczyk has nearly three decades of experience in CAE, has actively pioneered innovative methodologies for uncertainty and complexity management, and has published seven books on stochastic, nonlinear mechanics and complexity management. "Technology developed by Ontonix allows engineers to conceive new solutions and designs while effectively quantifying and managing the risks associated with overly complex systems."

OntoNet™ is a desktop tool that allows engineers to measure the complexity and robustness of components or systems. It processes the results of Monte Carlo Simulations, DOE, optimization or sensitivity analyses to compute the values of system complexity and robustness, enabling engineers to exploit their expansive amounts of existing data to the fullest extent and achieve simpler, more robust

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designs. It works in conjunction with MAPVIEW™ and produces a report, containing the Complexity Profile of a system and the corresponding System Map.

"Altair strives to simplify access to a broad suite of CAE technology with its HyperWorks licensing system; and it was Ontonix' holistic approach to attacking a fundamental concern of product designers that attracted us to this partnership," said Antoine Poussier, vice president of global partner programs at Altair. "Our companies share a common goal to help optimize our customer's designs and overall business processes in order to achieve better, faster, and more cost-effective solutions."

The HWSA strives to provide the most comprehensive offering of software applications across multiple relevant domains related to CAE. The addition of OntoNet™ further enhances the flexibility of the HyperWorks Units and the overall value of the Altair HyperWorks offering.

About Ontonix S.R.L.

Ontonix, a privately held company established in 2005, develops software and offers exclusive high added value services in the field of quantitative complexity management. OntoSpace™, the company's flagship product, is the world's first complexity quantification and management system. Ontonix has offices in Europe, South America, South Africa and Asia. In 2009 Ontonix spun-off US-based OntoMed - a company dedicated to researching and commercializing its quantitative complexity management technology in the medical field. In 2011 Ontonix launched an engineering portal, which allows one to measure the complexity and robustness of systems and products. For more information about Ontonix S.R.L., visit www.ontonix.com

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Altair Introduces Innovative Full-Vehicle NVH Simulation Solution

15 February 2012

[Altair Engineering, Inc.](#) announced the release of [NVH Director](#), the first commercial software tool that makes full-vehicle noise-vibration-harshness (NVH) simulation possible in the most advanced and streamlined form.

Altair will demonstrate NVH Director during a live webinar held on Feb. 29 at 9 a.m. EST. To access more information and register for the webinar, visit <http://www.altairhyperworks.com/NVHwebinar>.

NVH Director employs Altair's [HyperWorks](#) suite of computer-aided engineering (CAE) tools in a fully integrated, user-friendly, customizable form to automate the tasks involved in NVH analysis. By integrating the entire process of meshing, assembly, loadcase setup, and post-processing, it reduces the full-vehicle [NVH simulation](#) time, freeing CAE engineers to focus on [optimizing](#) product design and performance.

The solution introduces a new object-oriented environment for true full-vehicle NVH simulation. This environment enables users to manage subsystem representations, 3D display, FE entity ID numbering, connection properties and [assembly](#) definition in a modularized manner for ease of handling and debugging.

NVH Director leverages [advanced technologies](#), such as browser, connector, process manager, object-oriented assembly and model templates to achieve a superior user experience. It also includes highly specialized functionalities to simplify NVH simulation tasks, such as:

[Meshing](#) of the acoustic cavity and coarse display model

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Subsystem model dynamics reduction to component mode synthesis (CMS) superelement and frequency response function (FRF) representations

Support for analysis using mixed FE and reduced representations

Templated lumped parameter models

Joints modeling using enhanced CBUSH elements

NVH local coordinate systems creation

Templated loadcase and guided, step-by-step, process-driven loadcase creation

[Post-processing and diagnostics](#), with an integrated approach to visualizing results

"Traditionally, full-vehicle NVH simulation techniques have been proprietary processes, closely guarded by original-equipment manufacturers," said Anthony Norton, Altair's senior director, global automotive. "The time now has arrived for a comprehensive commercial product that combines all the most advanced features into one tool and that meets the changing needs of OEMs and the increasingly high expectations of consumers."

Altair's new solution advances NVH analysis by facilitating the modeling of all vehicle subsystems, including trimbody, powertrain, suspension, steering system and torque paths. Furthermore, it operates based on real-world events, directly simulating customer usage experience to drive physical-prototype development and to identify problems related to specific loadcases and response.

"One of the biggest challenges in full-vehicle simulation is dealing with modeling complexity," said Jianmin Guan, Altair's senior program manager for noise, vibration, and harshness. "NVH Director reduces the complexity by giving users the ability to manage their assembly in a modular fashion and providing highly specialized tools that have never before been available in any commercial simulation packages."

"NVH Director simplifies full-vehicle simulation," Guan noted. "It enables engineers to employ CAE to drive product design, with mathematical cause-effect relationships that generate a full understanding of physical root causes and with the ability to identify sensitive parameters through quick what-if studies. NVH Director clearly identifies the receiver of source-path vibrations, and the most effective solutions often come from reducing the source of vibrations. In the end, NVH Director significantly lessens physical testing by running many iterations in CAE simulation, and it improves the value of testing by helping the engineer learn more from simulation."

Registered Altair clients can download NVH Director from the [Altair HyperWorks software downloads site](#) using their existing HyperWorks units.

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Aras Announces Availability of Actify's Centro 3D CAD Viewing Technology

14 February 2012

Aras® announced the availability of Centro 3D CAD viewing technology for the Aras Innovator® PLM platform.

Developed by Aras Partner Actify, Centro enables Aras users to access and distribute a wide range of 3D and 2D CAD file formats making it easy to convert, view and share CAD files throughout the

enterprise and global supply chain.

Embedded in Aras Innovator 9.3 Service Pack 1, Aras subscribers now have access to Actify's Centro solution, along with support for a wide range of CAD formats and Actify's SpinFire Reader. "Embedding Centro into Aras Innovator provides companies a simple, secure way to access and view necessary CAD files, helping to streamline processes that involve collaboration with multiple departments, outsourced manufacturers and suppliers." said Chris Jones, Actify President and CEO.

"Like Actify, Aras provides market-leading technology that enables customers to improve time to market and achieve better quality." "Putting Centro's technology in Aras Innovator provides users with a hassle-free way to share 3D and 2D CAD files and improve collaboration globally," said Peter Schroer, President of Aras. "By combining the new capabilities in Centro with our advanced CAD integration functionality, companies that operate large scale multi-CAD environments can take their PLM implementations to the next level."

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Atos, EMC and VMware to Form an Open Cloud Computing Strategic Alliance

15 February 2012

Atos, EMC Corporation and VMware announced a strategic alliance for open cloud computing. Additionally, Atos plans to create a new company, Canopy, providing a wide range of cloud solutions and services designed to speed the delivery and help customers take advantage of the benefits of cloud computing. Based on best-of-breed technology from global cloud computing industry leaders EMC and VMware, the new offerings will include an open cloud platform that enables customers to easily and flexibly choose, access and deploy cloud-based services for their enterprise IT needs.

Canopy will provide a one-stop shop for cloud services, enabling organizations to securely and cost effectively accelerate their move to the cloud. As part of the strategic alliance and in addition to providing the advanced technologies upon which the new Atos cloud solutions and services will be delivered, EMC and VMware also intend to invest alongside Atos to help drive innovation and the successful adoption of Canopy's solutions in the marketplace.

Thierry Breton , Chairman and Chief Executive Officer at Atos, said: "Today's enterprises and governments face in parallel massive pressures on IT costs, growing user expectations for agility, user-friendliness, and innovation. Cloud Computing is radically changing the world of IT by meeting these needs. The launch of Canopy and its unique set of enterprise-grade services will ensure that Atos is well positioned to play a leading role in this new and growing market. The value of today's strategic alliance is very promising for our customers as Canopy has been designed to leverage the capabilities of Atos, EMC and VMware technologies so as to offer our clients the best one-stop-shop cloud services. Canopy will in particular closely work with its private and public sector customers to guarantee that its cloud solutions and operations will provide the highest level of integrity, reliability and security."

Joe Tucci, Chairman and Chief Executive Officer, EMC said "Cloud computing is altering forever the way in which IT is designed and consumed across data centers, applications and end user access points. EMC looks forward to working even more closely with Atos, accelerating this shared vision and making the benefits of cloud computing a reality for enterprise customers in key targeted industries."

Paul Maritz , Chief Executive Officer, VMware said: "Cloud computing represents a significant shift in how customers consume and manage IT resources, but they are asking for the benefits of the cloud on

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their terms, with the ability for managed services to be delivered on or off premise. We're pleased to be working with Atos and EMC to deliver cloud solutions in this fashion – simplifying and automating IT services to help customers not only reduce costs, but also transform IT into a strategic asset that yields business and competitive value."

The new strategic cloud offerings will be based on open standards so clients can always choose their preferred technology, whether to run the solution off- or on-premise and how to mix private, public and hybrid cloud solutions to best meet their business needs. They will be targeted at selected vertical markets and include:

An Enterprise Application Store – powered by EMC and VMware technologies- will enable clients anywhere in the world to choose, access and download applications they require under the Software as a Service (SaaS) model. The store will include horizontal (cross-industries) and industry-specific business applications.

An Enterprise Platform as a Service (PaaS) – powered by EMC and VMware technologies, and managed by Atos, will provide a secure enterprise Java development environment, incorporating a standard development framework where Canopy and its clients can design, create and test new cloud applications.

A Private Cloud – powered by EMC and VMware technologies – will provide clients with a pre-configured, standardized, enterprise-grade cloud stack for on-premise and off-premise deployments, enabling clients to speed up their cloud readiness.

Cloud strategy & transformation Journey Design – these consulting services will range from building customized cloud strategy to shaping a cloud transformation journey so that customers can grasp the benefits while moving to the cloud securely and at the speed that is right for them.

The strategic alliance will leverage the common channels of Atos and EMC to bring to the market this portfolio of end-to-end cloud services.

With cloud computing currently accounting for 10% of the IT market and set to quadruple by 2020, Atos, EMC and VMware share the same vision and strategy regarding ongoing IT/Cloud transformation and the Cloud solutions and services required in the marketplace.

Canopy will enable the transformation of the application landscape of customers and help them capture the value delivered by the cloud. Canopy customers will benefit from the highest levels of integrity, security and confidentiality of data in the cloud as well as secure operations with high level of availability leveraging the broad portfolio of solutions and services from its partners.

Thus, Canopy customers will fully benefit from the cutting-edge EMC and VMware technologies, orchestrated, carefully integrated, industrialized and delivered through the Atos worldwide datacenter network and proven know-how in cloud services. For organizations, the benefits are huge – in IT costs reduction through flexible pricing models plus access to innovative, flexible, agile technology that ensures rapid implementation and faster time to market for products and services.

Headquartered in Europe, Canopy will propose Cloud offerings from dedicated infrastructures in order to ensure its customers' data protection and security, complying with all relevant regulations. Canopy CEO will be appointed by Atos, its principal shareholder.

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CimatronE Speeds Design of Molds for Mobile & Handheld Devices

16 February 2012

[Cimatron Limited](#) announced that CimatronE 10 contains important enhancements for the mobile-electronic industry.

CimatronE 10 offers a new Lifter applicative tool and a new Insert applicative tool. The Lifter application uses commercial or user designed catalog parts to automatically create any type of lifter, no matter how complex. The Insert application creates multiple inserts simultaneously. Both applications automatically create pockets in the relevant mold plates.

"Cimatron's new applicative tools have the potential to dramatically simplify the design of complex molds, leading to significant time savings in mold design process" said Ira Bareket, Cimatron's VP Sales and Marketing.

"These applications are especially useful in the mobile and handheld device industries, where a large number of lifters and inserts are found in molds," said Mr. Bareket. "In addition, the Lifter application offers significant advantages in the automotive industry where a quick, easy operation now replaces modeling for complex lifters."

In addition to replacing routine modeling operations, these applicative tools enable Early Machining to take place. As inserts and lifters, and their relevant pockets in the cavity or core can be established at a very early stage of design, they can also be machined earlier. Performing milling and wire EDM operations early significantly reduces overall delivery time.

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CSC becomes an Autodesk Industry Business Partner

13 February 2012

CSC announced the formation of a new industry strategic business relationship with Autodesk, Inc.'s Architecture, Engineering and Construction (AEC) division to further promote the adoption of Building Information Modeling (BIM) within the global structural engineering community. As part of the new relationship, the parties have entered into an agreement whereby CSC and Autodesk will provide customers with more closely integrated solutions that support a more efficient structural engineering workflow for BIM.

CSC products to play a role in the joint effort include [Fastrak \(steel building design software\)](#) and [Orion \(reinforced concrete building design software\)](#). Autodesk's products to play a role in the joint effort include [Autodesk Revit Structure 2012](#) (a purpose-built Building Information Modeling solution for structural engineering firms, providing specific tools for structural design and analysis integration).

Data exchange and integration between Autodesk Revit Structure 2012 and Fastrak or Orion is now possible with the introduction of CSC's unique and free software product, [CSC Integrator](#). CSC Integrator enables structural engineers and technicians to synchronise models between Autodesk Revit Structure and Fastrak or Orion software.

"CSC is delighted to be working with Autodesk as an industry business partner," states CSC's BIM Development Manager, Kevin Lea. "We understand our clients want to provide both efficient and cost effective building design. This is why we developed integration functionality, between Revit Structure, and Fastrak and Orion, to enable structural engineers and designers to deliver accurate building models

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incorporating physical, analytical and code-based design. We look forward to working with Autodesk to help our clients maximise the full potential structural BIM can offer.”

Autodesk’s Structural Engineering Business Line Manager, Gary Wyatt, adds, “CSC software complements Autodesk’s software portfolio very well. Working with industry partners is of strategic importance to Autodesk and we are pleased to enhance our working relationship with CSC.”

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First Trace Releases Service Pack 1 for Kinnosa 5

15 February 2012

[First Trace, Inc.](#) has released Service Pack 1 (SP1) for version 5 of Kinnosa, a Document Control and Business Process Management software. The SP1 includes substantial updates, system enhancements and new features to address specific customer requests. Additions to Kinnosa’s document control services include Universal Content Indexing, Intelligent Workspaces, enhanced property inheritance and advanced auditing. Kinnosa’s Business Process Management (BPM) engine was upgraded with new Task Management services that automate and simplify project management and business workflows.

One of the primary technological challenges of the modern enterprise is how to effectively unify disparate IT systems into a cohesive environment. Many organizations use multiple systems for data management, ERP, CRM, manufacturing, engineering and more. The problem often comes down to a basic requirement: can the average enterprise employee aggregate, search and access data in these independent systems from a simple display?

SP1 for Kinnosa 5 includes a new Universal Content Indexing capability that speeds and extends users ability to search all document content for DWG, DWF, PDF and MS Office file formats. The content indexes contain various CAD attributes, text content and reference data that allow high performance Kinnosa searches. Universal Content Indexing provides sub-second responses to searches on Big Data across the enterprise to find specific content and properties buried deep within documents. End users are able to run extremely fast searches from Windows Explorer to access documents stored in the Kinnosa repository and external systems; no need to use multiple interfaces.

Working with large and complex files can be difficult in a collaborative enterprise environment. File transfers can be time-consuming when dealing with AutoCAD, SolidWorks, Inventor, MicroStation and other CAD documents. Kinnosa has been enhanced with an Intelligent Workspace that speeds updates, transfers and overall system performance. Internal staff, even engineers using complicated CAD tools, can manage files in real-time without having to wait for lengthy processes to complete. End users continue to work without interruption while the system intelligently manages the workspace files.

The most exciting new enhancements added to the integrated Kinnosa Workflow BPM solution include Task Management services. These innovative new services allow users to assign flexible lists of tasks, documents, templates and approvals to real-world business workflows. Especially suited for project management, these services add an entirely new level of BPM capabilities to Kinnosa Workflow’s already robust suite of services. Groups of authorized employees can work simultaneously on the same content for total process collaboration.

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Infolytica Corporation releases MotorSolve v3.0 with Thermal Analysis Module

14 February 2012

Infolytica Corporation announces MotorSolve v3 is available. The new MotorSolve Thermal module is included with this latest version, giving motor designers a complete software tool which they can use to thoroughly evaluate the impact of temperature and different cooling methods on the performance of brushless, PMAC and induction machines.

MotorSolve Thermal is a 3D automated-FEA analysis module that enhances the accuracy of MotorSolve's existing electromagnetic result computations by accounting for heating and cooling on performance as well as offering new temperature related outputs. It accounts for conduction, radiation and natural/forced convection heating or cooling.

The MotorSolve user interface has been updated to include a full 3D view of the housing and the machine, giving a real time view of the design. The use of descriptive names and annotations on the model remove any guesswork as to the nature and impact of each parameter.

This latest release is unlike other design software solutions on the market, as it eliminates the need to create two separate machine models for thermal and electromagnetic analysis. Within just one design environment, you can perform both types of analysis. There is no template matching or software linking. Just specify the motor and housing geometry, winding details, losses, materials and cooling type once in order to:

- Calculate temperatures using the losses from the magnetic analysis
- Perform the magnetic analyses taking into account the change in material properties due to the change in temperatures

MotorSolve Thermal offers both steady state and duty cycle experimental condition. The extensive list of performance charts includes duty cycle losses, average or min/max temperatures and heat flux.

Infolytica will be holding a free [web seminar](#) on February 23th, 2012 to demonstrate the newest features available in MotorSolve v3. To register, visit the [An Introduction to MotorSolve Thermal registration page](#).

Infolytica Corporation will partner with Jim Hendershot to host a pre-conference workshop at [Motors, Drives and Automation 2012](#) entitled "BLDC Motor Design: Electromagnetic, Thermal and Cooling Considerations". This event will cover, amongst other topics, the combined power of both the electromagnetic and thermal analysis modules of MotorSolve. Visit <http://jh-workshop.com/md2012.html> for more details.

Pricing and Availability

MotorSolve v3 is now available for PC's running Microsoft Windows XP, Vista and 7. For information regarding pricing or to request an evaluation, [please contact an Infolytica Corporation representative nearest you](#).

About Infolytica Corporation

Since 1978, Infolytica offers CAE software for magnetic, electric, and thermal analyses. Engineers from a wide range of industries use Infolytica software to design and analyze applications such as electromechanical devices, non-destructive testing (NDT), induction heating, power electronics, sensors, and industrial transformers.

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Magma and MunEDA Significantly Boost Designer Productivity for Leading-Edge Analog and Digital Circuit Designs

15 February 2012

Magma® Design Automation Inc. announced the completion of a collaborative effort to integrate Magma's FineSim™ SPICE simulator and MunEDA's WiCkeD™ tools suite. The joint solution enhances and speeds the analysis, modeling and optimization of full-custom analog and digital circuit designs – especially in leading-edge 28-nanometer (nm) and 20-nm process technologies. Mutual customers now can invoke Magma's FineSim SPICE from within MunEDA's WiCkeD. The new solution, available now, is already in active use by leading semiconductor customers of Magma and MunEDA worldwide.

“MunEDA's high-end EDA tools for analysis, modeling, porting and sizing ideally complement our FineSim SPICE simulation solution for system-on-chip (SoC) designs,” said Anirudh Devgan, general manager of Magma's Custom Design Business Unit. “This joint solution gives our customers access to the advanced technology they need for silicon success at 28 and 20 nanometers and below.”

“We are proud to cooperate with Magma on this full-custom design flow for advanced technology nodes,” said Harald Neubauer, president and CEO of MunEDA. “The combination of Magma's FineSim SPICE and MunEDA's WiCkeD significantly benefits our mutual customers. Designers using MunEDA's design tools with Magma's simulation platform are able to analyze and optimize complex full-custom digital designs.”

WiCkeD: Circuit Analysis and Optimization

MunEDA WiCkeD is a comprehensive software tool suite for circuit sizing, modeling, optimization, analysis and verification. Its main application areas are analog/RF and full-custom digital designs, IP libraries, standard cell libraries, high-speed I/O, FPGA and memory designs. WiCkeD enables customers to reduce the design time of their circuits and IP libraries, reduce power consumption, and maximize robustness, reliability and yield.

FineSim SPICE: Fast and Accurate Simulation

FineSim SPICE is a SPICE-level simulation analysis tool that incorporates transistor-level simulation analysis capabilities for mixed-signal and analog designs. FineSim SPICE is a full SPICE simulation engine with distributed processing that enables design teams to simulate large-scale mixed-signal SoCs at the transistor level. By providing increased speed and capacity while maintaining full SPICE accuracy, FineSim SPICE enables designers to simulate advanced circuits — such as PLLs, ADCs (analog-to-digital converters), DACs (digital-to-analog converters) and gigahertz SERDES (SERializer/DESerializer) — they would not have attempted to test using slower traditional SPICE simulators.

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MathWorks Expands System Design Capabilities in MATLAB

14 February 2012

MathWorks announced expanded system design capabilities in [MATLAB](#) with the launch of [Phased](#)

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[Array System Toolbox](#). Engineers can use MATLAB with Phased Array System Toolbox to model, simulate, and analyze complex phased array systems to gain confidence in their system design across applications such as radar, acoustics and communications.

With capabilities provided as MATLAB functions and MATLAB System objects, Phased Array System Toolbox includes a large library of algorithms for waveform generation, beamforming, direction of arrival estimation, target detection, and space-time adaptive processing. The toolbox helps engineers model end-to-end phased array systems or use individual algorithms to process acquired data. It includes MATLAB code examples and demos that provide a starting point for implementing user-defined phased array systems.

“Phased Array System Toolbox is among the most significant products for the radar engineering community that I’ve seen in the last forty years,” said John W. Brooks, Ph.D., P.E., President, Brooks Enterprises International, Inc. “Traditionally, radar engineers have relied on legacy workflows, but as designs get more complex and a new generation of engineers enters the workforce, maintaining and working with disparate legacy systems becomes increasingly difficult. Now, Phased Array System Toolbox builds on the capabilities of MATLAB to offer radar engineers a consistent methodology to work on radar modeling, simulation, and design.”

“Engineers working on radar system design applications are expected to work on disparate tasks such as multidomain system modeling, algorithm development, and architecture exploration,” said Ken Karnofsky, senior strategist for signal processing applications, MathWorks. “MATLAB with Phased Array System Toolbox enables those engineers to build scalable, reusable system models and signal processing algorithms. This reduces the time needed to model, simulate, and implement radar systems.”

Phased Array System Toolbox lets radar and acoustics engineers build monostatic, bistatic, and multistatic architectures for a variety of array geometries, with the ability to model these architectures on stationary or moving platforms. Array analysis and visualization tools enable the evaluation of spatial, spectral, and temporal performance.

Pricing and Availability

Phased Array System Toolbox is available immediately. U.S. list prices start at \$1,350. For further information, visit the product Web site at <http://www.mathworks.com/products/phased-array/>

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Meridian Systems Releases Proliance 5.1 for Building Owners and Organizations Managing Capital Building Programs

14 February 2012

Meridian Systems, the Plan-Build-Operate technology solutions leader for project-based organizations, announced the release of Proliance® software version 5.1. This release adds new mobile device capabilities to the Proliance platform, which provides capital program management capabilities to building owners managing new infrastructure construction and facility renovation programs.

Release 5.1 provides features to improve usability and increase user adoption. These features include extended interface customization capabilities that allow users to tailor field names in menus and form views to create consistency with the terms used by the business. This capability helps building owners to map Proliance features directly to the way that they do business. The Proliance 5.1 release also includes a variety of enhancements that help to streamline many common tasks, including one-click export of

data, one-click file upload, and one-click to open project schedules.

In addition, Proliance 5.1 now supports major mobile device platforms, including Android, BlackBerry and iPhone, allowing users to access vital workflow features from a mobile device. Mobile users can now perform workflow driven tasks such as approving an invoice, accessing notices, or reviewing a change request.

“Because more and more users are no longer tied to their desktop, we have dedicated significant research and development activities to offer mobile capabilities to our users,” said Rick Gehringer, who leads the Capital Owners Business Unit at Meridian Systems. “Having the ability to process workflow steps when in the field can further increase the collaboration capabilities already inherent in the Proliance solution.”

Proliance software combines project and portfolio management, business process management and business analytics into one system of record, enabling large enterprises to track how their real estate, construction and facilities portfolios are performing. For more information on Proliance, call Meridian at (800) 850 2660, or visit: <http://www.meridiansystems.com/products/proliance/index.asp>.

About Meridian Systems

Meridian Systems, a Trimble Company, is the Plan-Build-Operate technology solutions leader for project-based organizations. Building owners, construction and engineering firms, and public agencies use Meridian software to effectively manage capital building and facility renovation programs. Meridian also is a pioneer in combining plan-build-operate features on an open technology platform to provide infrastructure lifecycle management solutions for capital building owners. Download free Meridian research and case studies by going to: <http://info.meridiansystems.com/downloads/>

1 2011 IT Playbook, Constructech Magazine

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ModuleWorks and SolidCNC Sign Partnership Agreement

13 February 2012

ModuleWorks has confirmed their partnership with Turkish CAD/CAM provider, SolidCNC.

SolidCNC develop an easy to use solution for milling, wire and turning applications with an emphasis on the mold and die industry.

New releases of SolidCNC will incorporate ModuleWorks 3-Axis machining and material removal simulation technology providing an expanded range of toolpath strategies and state-of-the-art verification with toolpath analysis.

SolidCNC join the growing list of leading CAD/CAM vendors who have selected ModuleWorks to provide machining and/or simulation technology for their CAM solutions with CIMdata figures [[NC Software Market Assessment Report](#)] now showing that ModuleWorks partner with more than 60% of the leading suppliers.

Mr. Ata Demiray, CEO, seen above completing the agreement with Yavuz Murtezaoglu, ModuleWorks founder and Managing Director comments “We conducted a detailed evaluation of potential solutions, including a make or buy comparison and ModuleWorks was a clear winner for our requirements, especially time to market. All of customers will soon benefit with fast, accurate verification and more

choices for toolpath generation”

Yavuz Murtezaoglu comments “We’re very pleased to be able to announce SolidCNC as a new partner in a rapidly growing geography. SolidCNC provide a comprehensive solution for manufacturing and the addition of ModuleWorks’ toolpath and verification technology will complement the product and add value for customers”.

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New Agni Link 2012 CAD-ERP Data Integration System for Microsoft Dynamics ERP for SolidWorks, AutoCAD, Autodesk Inventor

13 February 2012

[Elmo Solutions](#) announces the immediate availability of [Agni Link 2012](#). Agni Link is a companion to SolidWorks, AutoCAD and Autodesk Inventor that provides real-time, bidirectional data integration with ERP systems, among which:

- Microsoft Dynamics NAV (Navision);
- Microsoft Dynamics AX (Axapta);
- Microsoft Dynamics GP (Great Plains);
- Microsoft Dynamics SL (Solomon).

This outstanding application offers a reliable way to integrate PDM and ERP data, automatically resolving discrepancies, and allowing editing of CAD and PDM data using possible values obtained "live" from the ERP application, thus ensuring perfect synchronization of both data sets and completely eliminating redundant data entry as well as eliminating costly errors. Agni Link can process and synchronize a wide range of product data from either environment, including:

- Bills of Materials (BoMs);
- Jobs;
- Sales Quotes;
- Work Orders;
- Production Orders;
- CRM.

Yielding high Return on Investment, Agni Link typically pays for itself in 60-90 days in ETO-intensive environments. Elmo Solutions Science Officer, Ricardo Talbot said: "We are very excited to introduce this long-awaited breakthrough edition of the most advanced and efficient method of integrating the CAD/PDM and ERP silos of information. The new 2012 release brings really exciting new features and benefits that dramatically enhance the value of our CAD-ERP data integration offering. End-user feedback so far has been very enthusiastic, and we are really proud to introduce this new Agni Link release.”

New Agni Link 2012 features include, among other things:

- Cloud-ready, enhanced Web Services connectivity;
- Automatic software update;

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- Optimized performance and response time through clever use of multithread programming;
- User-friendly Configuration Wizard that allows quick and efficient changes in Agni Link mappings and data behaviors.

Agni Link's open architecture can support a wide range of ERP applications, including, among others, Microsoft Dynamics AX (Axapta) and Microsoft Dynamics NAV (Navision).

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New CAM Solutions Added to the Upcoming ZW3D 2012

14 February 2012

ZWSOFT announced new 2X and 3X machining systems based on the forthcoming release of ZW3D 2012. The brand-new two-axis and three-axis systems will provide users with numerous milling and turning improvements, and improves speed through multi-threaded processing.

ZW3D 2012 2X Machining

The new ZW3D 2012 2X Machining system offers 2X turning, 2X milling, hole machining operations, and auto-feature tactics. The two-axis turning function provides support for OD and ID roughing, finishing, threading, and grooving operations. Two-axis milling is enhanced through a facing operation that creates tool paths for efficiently machining large planar regions with arbitrary boundaries, and complex planar regions with many holes and voids.

The 2X Machining System includes a lightweight CAD system so that users can modify models easily during the machining preparation stage. The CAD functions include solid modeling, healing, and data exchange. This allows users to effortlessly perform CAM operations in same environment as CAD functions; the powerful data exchange allows them to communicate easily with clients.

ZW3D 2012 3X Machining

The ZW3D 2012 3X Machining system with QuickMill™ technology offers efficient 2X turning, 2X and 3X milling operation, hole making, including feature recognition, roughing, finishing, and high speed machining. Quick Mill high speed milling is enhanced through multi-threaded calculations and new operations. For instance, 3X Machining can now remove material beneath overhanging shapes in 3X tool paths, and allows the use of wheel and T-slot milling tools. A new 3X operation mills surfaces in the same plane or different levels of a plane in a single operation.

The 3X Machining System also includes a lightweight CAD system the same as that of 2X machining system, which saves users much time and prevents data loss, because users no longer need to transfer models between external CAD programs and the CAM software.

Pricing and Availability

ZW3D 2012 2X Machining will have a suggested license price of US\$1,500, and ZW3D 2012 3X Machining will be priced at US\$4,000. The software will be available in English, Simplified and Traditional Chinese, Czech, French, Italian, German, Japanese, Polish, Brazilian Portuguese, Spanish, and Turkish.

Both software versions together will be available in March, 2012 through ZW3D's international network of channel partners. You can find the nearest reseller though our channel locator at

<http://www.zwsoft.com/en/index.php?m=content&c=index&a=lists&catid=366> or contact

sales@zwsoft.com.

OpenText Unveils Advanced Capture Solution for Microsoft SharePoint

15 February 2012

OpenText™ announced OpenText Capture for Microsoft SharePoint, a software solution that allows organizations to efficiently capture, digitize and fully index paper documents, forms and faxes and move them into SharePoint, helping to reduce dependence on paper-based processes and introduce business critical electronic content to corporate workflows.

This new offering builds on OpenText's advanced capture technologies and track record of building solutions that extend the value of the SharePoint platform. It also complements the existing OpenText solution set for SharePoint, such as information governance, storage management, and business process management and makes OpenText one of the most comprehensive providers of SharePoint solutions.

When it comes to reducing paper, enterprises are increasingly turning to the latest generation of capture solutions that ease the process of indexing and storing documents and integrate seamlessly with existing content applications. Recent AIIM research cited strong opportunities and return-on-investment for advanced or intelligent document capture solutions, but noted that "a majority of respondents felt that IT resource issues and technical issues would be eased considerably if they had a common capture platform."

OpenText Capture for SharePoint is such a solution. It uses some of the most advanced tools available to capture and store paper documents and can be used to import other types of content including faxes, email with attached documents, images, business forms, and complex multipart documents. This gives organizations a single, enterprise-wide capture platform that can automatically import scanned documents into SharePoint libraries to significantly reduce transactional operating costs and to drive extended efficiencies through process automation initiatives.

OpenText Capture for SharePoint supports a variety of capture scenarios including ad-hoc or desktop scanning, high-volume batch and distributed scanning, and full-text capture servers. Captured paper documents are then converted to searchable digital documents using the latest Optical Character Recognition (OCR) and Intelligent Character Recognition (ICR). Users can easily extract any missing or required meta and business data using patented Single Click Entry technology.

Capture for SharePoint complements existing OpenText offerings for the Microsoft ecosystem. OpenText Business Process Management and Case Management solutions enable SharePoint customers to automate their business processes that often involve document capture. OpenText Application Governance and Archiving allows customers to provision SharePoint sites, extend formal records and physical records management capabilities and provide long-term preservation and archival. OpenText Storage Services for SharePoint reduces storage costs associated with supporting large volumes of content in SharePoint while ensuring performance. Now, OpenText Capture Center provides a seamless way for Capture for SharePoint customers to take intelligent capture to the next level and add automatic document recognition and metadata extraction capabilities to their solutions.

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Synopsys and Arteris Enable Earlier Multicore SoC Architecture Optimization with Faster Turnaround Times

15 February 2012

Synopsys, Inc. and Arteris Inc., the inventor and a leading supplier of network-on-chip (NoC) interconnect IP solutions, announced a collaboration that enables models of Arteris' FlexNoC® interconnect IP to be used with Synopsys' Platform Architect™ environment, offering system designers the ability to simulate realistic system-level performance of their end product architectures. SystemC transaction-level models (TLMs) generated by Arteris' FlexNoC configuration tool can now be easily united with Synopsys' architecture design models and traffic generators, enabling early analysis of end-application performance, and highly efficient optimization of multicore system architectures months before system software or register transistor language (RTL) designs are available.

"In our research, we've found that almost half of project delays are caused by problems with the system architecture design and specification," said Chris Rommel, vice president, embedded software and hardware, VDC Research. "Many of these architecture problems are related to escalating SoC complexity, including multicore requirements. Therefore, solutions like the one developed by Synopsys and Arteris to efficiently analyze multicore SoC architectures early in the design flow should become increasingly valuable as engineering teams look for ways to help improve project schedules and performance results."

With newly enhanced transactors and analysis monitor support for Arteris' FlexNoC interconnect models, Synopsys' Platform Architect environment with Multicore Optimization Technology (MCO) offers system architects three distinct advantages for early performance analysis and optimization of complex designs: 1) obtaining fully-instrumented performance models before software and RTL availability, 2) clearly measuring and visualizing the dynamic behavior and performance bottlenecks of multicore designs, and 3) automating the design flow to enable developers to explore hundreds of architecture alternatives in days versus weeks or months with paper specifications and RTL methods. Now, architects using FlexNoC interconnect IP can take advantage of these features to more fully explore and optimize their multicore architectures and avoid the costly impact of over- or under-designing their SoC.

"Arteris FlexNoC's integration with Synopsys' Platform Architect MCO environment allows our customers to create better SoCs in less time," said K. Charles Janac, president and CEO of Arteris. "Integration of the two technologies allows SoC designers to have the same quick turn-around simulation times they experience today with FlexNoC, while gaining critical benefits from the more realistic simulation and earlier analysis of their application scenarios."

Arteris FlexNoC's silicon-proven commercial network-on-chip interconnect IP offers the ability to reduce the number of interconnect wires and logic required for multicore SoC design. Reducing the interconnect wires and logic gates resolves routing congestion and timing closure issues at the back-end place-and-route stage, resulting in shorter development cycle time, faster SoC frequencies, smaller SoC area and less SoC power.

"Our goal is to help system designers and architects avoid late discovery of system performance problems that can be extremely costly for both project schedules and budgets," said John Koeter, vice president of marketing for IP and systems at Synopsys. "By starting architecture analysis and optimization at the transaction-level with Arteris' FlexNoC interconnect models in Synopsys' Platform Architect MCO, we offer SoC architects the ability to perform accurate simulation of the multicore

system and its most critical application use-cases earlier. With this combination they can achieve the best balance of performance, power and cost at a time in the development process where they have the greatest impact."

Availability

Arteris and Synopsys' integration is available for users of Arteris FlexNoC version 2.6 or later, and Synopsys' Platform Architect MCO tool version G-2011.06-SP2 or later. For more information on Arteris' FlexNoC interconnect IP, please visit: <http://www.arteris.com/flexnoc>. For information on Synopsys' Platform Architect MCO tool environment, please visit: <http://www.synopsys.com/platformarchitect>.

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Synopsys Announces DesignWare Embedded Memories and Logic Libraries for TSMC 28-nanometer Processes

14 February 2012

Synopsys, Inc. announced immediate availability of DesignWare® Embedded Memory and Logic Library IP for TSMC's 28-nanometer (nm) high-performance (HP) and high-performance for mobile (HPM) process technologies. The Synopsys DesignWare Embedded [Memories and Logic](#) Libraries are designed to deliver high performance with low leakage and active power, giving engineers the ability to optimize their entire system-on-chip (SoC) design for speed and energy efficiency. This balance is especially critical in mobile applications. In combination with the embedded test and repair technology of the DesignWare STAR Memory System®, Synopsys' embedded memories and standard cell libraries offer designers an advanced, comprehensive IP solution for creating high-performance, low-power 28-nm SoCs with reduced test and manufacturing costs.

"As a provider of processors and graphics devices for a wide range of mobile computing devices, we rely on Synopsys for proven, high-quality IP that helps us deliver high levels of performance while adhering to stringent power budgets," said Spencer Gold, senior memory design manager at AMD.

"We've achieved silicon success with DesignWare Embedded Memories in many of our chips in 65, 55 and 40-nanometer processes, and most recently at the 28-nanometer node. By utilizing a combination of the advanced power management modes in Synopsys IP, we were able to achieve significant savings in power consumption without compromising performance."

"As a leading developer of high-definition video solutions for mobile and consumer devices, Movidius believes it is vitally important to leverage technologies that enable us to achieve both high performance and low power in our mobile multimedia processor SoCs," said Brendan Barry, director of IC development at Movidius. "Optimizing performance per watt is critical to our success in applications such as mobile 3D. The DesignWare Logic Libraries synthesize efficiently to give us the speed to close critical timing paths and recover leakage with multi-channel cells. In addition, the unique power management features of the DesignWare Embedded Memories such as Light Sleep mode, which cuts leakage power of the memories in half, have helped us realize significant energy savings while still meeting our performance targets."

The new DesignWare IP extends Synopsys' broad portfolio of high-speed, low-power memories and standard cell libraries that have shipped in over a billion chips and support a range of foundries and processes from 180-nm to 28-nm. DesignWare 28-nm Logic Libraries take advantage of multiple threshold variants and gate length bias combinations to deliver optimal performance and power results

for a wide variety of SoC applications. These libraries offer multiple, synthesis-friendly cell sets and router-friendly standard cell library architectures designed for multi-GHz performance with minimal die area and high manufacturing yield. Power Optimization Kits (POKs) provide designers with advanced power management capabilities supported by popular low-power design flows, including shut-down, multi-voltage and dynamic voltage frequency scaling (DVFS).

The combination of high-speed, high-density and ultra high-density DesignWare Embedded Memories gives designers the flexibility to make performance, power and area tradeoffs for each memory used in their SoC. For power-sensitive applications such as mobile devices, all of Synopsys' 28-nm memories incorporate source biasing and multiple power management modes that significantly reduce leakage and dynamic power dissipation. Synopsys' ultra high-density two-port SRAM and 16 Mbit single-port SRAM compilers further reduce area and leakage by up to 40% compared to standard high-density memories, enabling SoC developers to implement memories with a differentiated blend of high performance, small area and extremely low power. The DesignWare STAR Memory System, integrated with Synopsys' embedded memories, offers reduced area and faster timing closure than traditional add-on built-in-self-test (BIST) and repair solutions while also providing post-silicon debug and diagnostic capabilities. This reduces design time, lowers test costs and improves manufacturing yield.

"As foundational elements for any SoC design, standard cell libraries and embedded memories play a significant role in the performance, power and area results that can be achieved in chip implementation," said John Koeter, vice president of marketing for IP and systems at Synopsys. "Synopsys' integrated suite of silicon-proven embedded memories and logic libraries enables SoC design teams to simultaneously tune their entire chip for maximum performance with the lowest possible power dissipation. By extending our portfolio of libraries and memories to TSMC's 28-nanometer HP and HPM processes, Synopsys is enabling designers to take full advantage of these processes' speed and power characteristics. As a result, they are better able to meet their goals of creating truly differentiated products with less risk and faster time to volume production."

Availability

The DesignWare Embedded Memories and Logic Libraries for TSMC's 28HP and 28HPM processes are part of the DesignWare Duet Package, which includes SRAMs, ROMs, standard cells, Power Optimization Kits (POKs) and optional overdrive/low voltage PVTs. The Duet Package for TSMC's 28HP and 28HPM processes is available now.

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Synopsys Announces Industry's First HDMI 1.4 PHY IP in 28-nanometer Processes for Multiple Foundries

13 February 2012

Synopsys, Inc. announced the immediate availability of [DesignWare® HDMI](#) (High-Definition Multimedia Interface) 1.4 PHY IP in advanced 28-nanometer (nm) processes for multiple leading foundries. System-on-chip (SoC) designs for high-end mobile multimedia and digital home applications are migrating to 28-nm processes to minimize power consumption and maximize performance. The DesignWare HDMI 1.4 PHY IP has been optimized for low power, small area and high performance at 28-nm, enabling design teams to quickly integrate the HDMI interface into their chips with less risk and effort.

"As a pioneer of wireless high-definition video chips for consumer electronic devices and as the founder

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of the WHDI Consortium (www.whdi.org), it was essential for us to partner with a trusted IP supplier like Synopsys to mitigate the development risks of our next-generation SoC," said Dr. Zvi Reznic, CTO and co-founder of AMIMON. "Synopsys' proven DesignWare HDMI solutions offer a compelling combination of small area, low power and support for the latest features, including HDMI Ethernet Audio Return Channel and 3D formats. Using Synopsys' high-quality DesignWare HDMI IP enables us to lower integration risk and achieve a predictable path to silicon success."

The DesignWare HDMI 1.4 IP solution is a comprehensive and fully tested suite of HDMI TX (transmitter) and RX (receiver) digital controllers and high-speed PHY IP. The configurable TX and RX controllers enable designers to optimize the IP for their specific area, power and frequency requirements, and the mixed-signal PHY hard macro offers a superior analog front-end supporting category 2-certified HDMI cables up to 20 foot in length. To keep pace with rapidly evolving 3D technology and achieve audio and video quality on par with digital cinema systems, Synopsys' HDMI IP supports all major 3D and 4K resolution modes with a bandwidth of up to 3.4 Gbps. Additionally, baseline software drivers are included to ease integration into the full SoC. The DesignWare HDMI 1.4 IP solution is fully compliant with both the HDMI and High-bandwidth Digital Content Protection (HDCP) specifications and has received certification from HDMI authorized testing centers.

"The rapid adoption of advanced technologies like 3D in high-end multimedia applications is driving an increased need for chips that deliver high performance with lowpower consumption," said John Koeter, vice president of marketing for IP and systems at Synopsys. "Synopsys has worked closely with leading foundries to help our mutual customers meet their evolving multimedia requirements. Availability of our DesignWare HDMI 1.4 IP on multiple 28-nanometer processes ensures designers have access to the high-quality, silicon-proven IP they need to quickly incorporate the latest audio and video functionality into their next-generation mobile and digital home devices."

Availability

DesignWare HDMI 1.4 PHY IP is available now in 90-nm to 28-nm process nodes for multiple foundries. The DesignWare HDMI 1.4 TX and RX digital controllers are also available now. For more information please visit: <http://www.synopsys.com/hdmi>.

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Tacton Configurator CPQ now Released on Salesforce AppExchange

14 February 2012

Tacton Configurator CPQ has been released on Salesforce AppExchange

Salesforce Tacton Configurator CPQ allows one to Configure, Price, and Quote your configurable products. It extends Salesforce standard business flows for Opportunity and Quote Handling by adding Configuration and Document Generation functionality.

Tacton Configurator CPQ enables CPQ functionality in Salesforce CRM. Users can interactively configure, price, and create professional quote documentation for any kind of configurable products. Tacton Configurator CPQ is a SaaS-based offering.

By using Salesforce as the primary data source and the company's entire product and configurator data, Tacton Configurator CPQ can be used with Salesforce standard powerful capabilities such as BI, Workflows, and Validation.

CIMdata PLM Industry Summary

Meyn, a Dutch worldwide supplier of solutions and equipment to the poultry processing industry, has used Tacton's solution for Salesforce for nearly two years and they are very pleased with how it works.

"The seamless Tacton/Salesforce integration enables our sales managers to configure complex quotes using the information stored in Salesforce during the configuration process. The result is a significant shorter quote cycle and more accurate pipeline information in the CRM. With this very flexible Salesforce integration we can combine the best of both worlds", says Sicco Saft, Business Analyst, Meyn Food Processing Technology B.V

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Tech Soft 3D Empowers 3D CAD Project Collaboration for New Cloud-Based Service TeamPlatform.com

14 February 2012

Tech Soft 3D and VisPower announced that the newly-released TeamPlatform, a cloud-based productivity application to help manage intra/inter-company projects among design, engineering and manufacturing firms, is built with Tech Soft 3D HOOPS Exchange data access libraries. Using Tech Soft 3D's HOOPS Exchange, TeamPlatform enables its users to visualize and track embedded metadata from a variety of 3D CAD formats, including IGES, STEP, SolidWorks, Pro/Engineer, Siemens NX, CATIA and Autodesk Inventor without the need for a CAD system, simplifying project collaboration and enabling instant engagement from all stakeholders.

TeamPlatform creates secure, sharable workspaces in which users can visualize, comment and manage all versions of a document, multimedia file or CAD file entirely within a web browser as projects move along. For CAD models, easy-to-start, intuitive workflows in TeamPlatform also track sophisticated information about designs -- including hierarchies, assembly components, annotation and measurements -- all which can be selectively shared as designs are modified and finalized.

HOOPS Exchange provides TeamPlatform users comprehensive and robust import of all aspects of their models. TeamPlatform's cloud servers use models imported with HOOPS Exchange to create in-browser 3D displays, meaning users can analyze designs and design versions including viewing 3D files without having to download and open them in dedicated 3D CAD software.

"VisPower Technology was looking for a solution that brought multi-format design data into a project collaboration environment," says Tech Soft 3D CEO, Ron Fritz. "HOOPS Exchange works within TeamPlatform to bring models' full data sets, from a variety of formats, into a user-friendly cloud application."

Learn more about TeamPlatform at: <http://www.teamplatform.com>

Learn more about [HOOPS Exchange](#)

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Theorem Solutions JT > 3DXML Translator Helps the CATIA Community to Work with JT Data

15 February 2012

Theorem Solutions, world leading supplier of PLM interoperability solutions is pleased to announce the availability of their latest visualization products helping resolve the issue of working with JT data for the

CATIA community.

Theorem's JT to 3DXML CADverter makes accurate JT data available to users of CATIA V5, 3DLive, 3DVIA Composer, Delmia and Enovia.

With the use of Dassault Systemes strategic XCAD and Siemens JT Open technology ensures full compatibility, delivers high quality data and business benefits with the latest version of Theorem's JT to 3DXML CADverter.

The resulting 3DXML data is a full and complete translation of the JT file, including Brep solids and surfaces, tessellated data, PMI (product manufacturing information), structure and colour. It provides users with new methods and extends the use of design data within a business enterprise and across supply chains.

Theorem customers will be immediately familiar with the interactive user interface for the translation of small numbers of files but it is likely that many organisations will gain significant benefit by running Theorem's JT to 3DXML translator via the command line interface integrated in to their PLM environments.

Theorem's JT to 3DXML CADverter is easy to use, saves a user time and reduces costs through not having to re-work data, also removing the occurrence of manual errors.

The JT to 3DXML product is available on Windows XP, Vista and 7, 32Bit and 64Bit platforms. Access to a licensed copy of CATIA V5 is required for operation.

Theorem's JT to 3DXML is available immediately. For further information click [HERE](#).

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ZW3D 2012 Coming with Extended CAD/CAM Capabilities

10 February 2012

Akela Ltd., ZW3D (formally VX CAD CAM) distributor in the UK, announced that ZW3D 2012 will be officially released by the end of February 2012. This new release promises significant improvements in many areas, with a special focus on increased modeling efficiency and advanced CAM operations as well as the new ribbon interface. Currently, users are encouraged to try its beta version and experience the breakthrough enhancements from: <http://www.zwsoft.com/en/zw3d-2012-beta-test/> ,

Better User Experience

The user interface of ZW3D 2012 features the ribbon interface, along with a new in-context mini-bar and in-context help files. The integrated PARTSolutions library allows users to quickly access the entire feature history of each part.

Increased Modeling Efficiency, Better Direct Editing

ZW3D 2012 offers users numerous improvements in creating and editing 3D models. The replace face, extrude, rib, curve mesh, and extend face operations are all improved. Direct Edit 2.0 makes it more intuitive for users to modify parts through direct editing functions.

Faster Sketching, Assemblies, and Drawings

Sketching is now 50% faster due to the optimized work flow. With the more interactive interface, it takes fewer steps for users to arrive at the result they want. In assemblies, it's easier to move them with

the new Assembly Move command.

In 2D drawing mode, layout views are now associative, and users can apply solid-filled TTF fonts for text.

Advanced CAM Operations

The new 2X Turning Module gives users turning and milling in the same interface, with support for OD and ID roughing, finishing, threading, and grooving operations -- along with an improved hole-making process.

Quick Mill gets a new undercut feature for creating 3x tool paths with wheel and T-slot milling tools for removing material beneath, thereby creating overhanging shapes. Together with the new CAM user interface, customers will appreciate the improved work flow.

Expanded Translation Capabilities

ZW3D 2012 now exports models in native STEP and ACIS SAT format, and the PDF exporter is beefed up with the new 3D mode. Images can be saved in a variety of high resolution raster files, and the STEP importer is now three times faster than before.

About ZW3D

ZW3D, formally VX CAD CAM, is CAD/CAM software developed by ZWSOFT. It integrates product design, sheet metal, reverse engineering, product assembly, mold development and machining in one package. Free trial of ZW3D is available from <http://www.zwsoft.com>.

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