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Top Stories

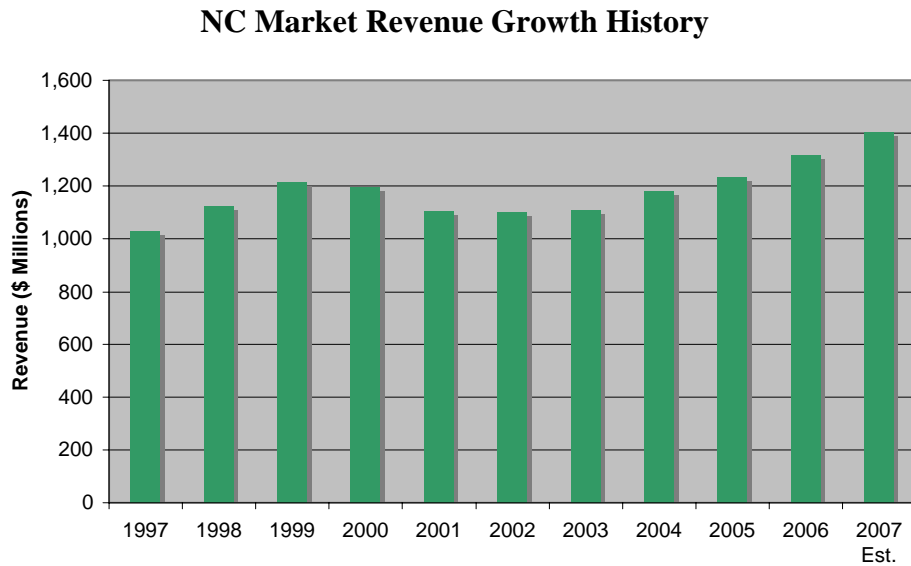
CIMdata Reports that NC Software Market Grows by 6.9% in 2006

12 April 2007

CIMdata consulting and research firm estimates that based on end user payments, the worldwide NC software and related services market grew by 6.9% in 2006 to reach a level of \$1.31 billion. Moreover, CIMdata estimates that in 2007 these payments will further increase by 6.4% to reach a level of \$1.40 billion. If so, this will be four consecutive years with a growth rate of 6% or more. There was no growth from 2000 through 2003 when the NC software market was in a recession. Since then, this market has shown steady growth as global economies have improved, there has been worldwide growth in sale of machine tools and manufacturing output, greater emphasis is being placed on efficient operation of machine tools as manufacturing firms must enhance their competitive position, and the overall PLM

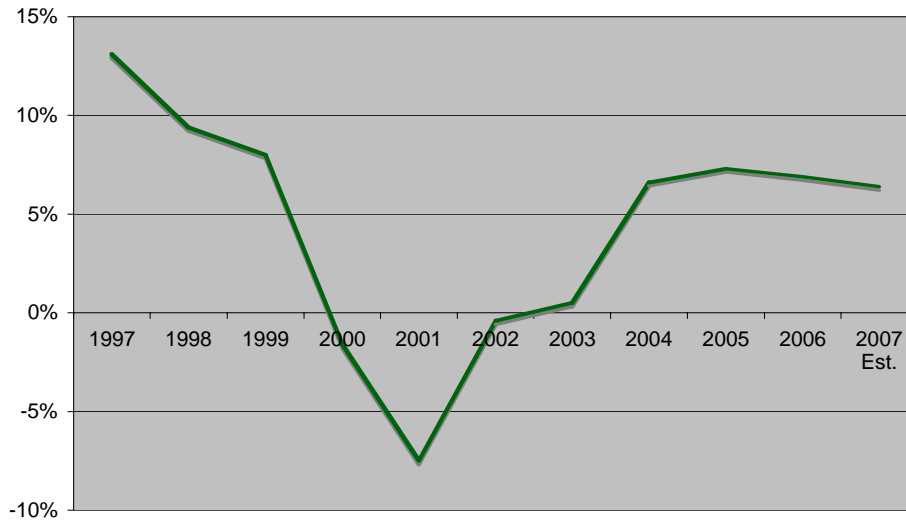
CIMdata PLM Industry Summary

(Product Lifecycle Management) market, of which CAM is a component, has shown strong growth. CAM software purchases are directly related to all of these factors. The size of the NC software and related services market, based on end user payments, is shown in the following chart:



The annual percentage year to year growth rate is shown in the following chart. It can be seen that the annual growth rate was on a declining path from 1997 to 2001, but then turned around and has been on an upward path since that time.

Annual Percentage Year to Year Growth Rate



The above information is contained in Version 16 of the [CIMdata NC Software and Related Services Market Assessment Report](#) that will be available for purchase from CIMdata. Mr. Alan Christman, CIMdata Chairman and primary author of the report, commented, “Even though software to control machine tools to cut parts is a relatively mature market, it has been active and exciting in the past several years. Some software vendors have had revenue growth of as much as 40% per year, a number of significant acquisitions have been made, integration with other elements of manufacturing software is occurring, new manufacturing areas such as China are emerging, corporations are placing greater emphasis on streamlining manufacturing operations, and the underlying CAM software technology continues to evolve.”

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Vendors Meet at CIMdata Vendor Forum to Discuss Direction of PLM Industry: Companies exchange ideas and insight on business strategies and opportunities in the evolving Product Lifecycle Management market

10 April 2007

Consulting and research firm CIMdata Inc. successfully held its annual North American PLM Vendor Forum in Ypsilanti, Michigan, with representatives from major PLM solution providers and suppliers of a wide range of niche-focused PLM-related offerings. CIMdata will hold similar forums in [Stuttgart, Germany](#), on April 19th, and in [Tokyo, Japan](#) on April 25th. The series is the world’s premier gathering of technology and service providers focused specifically on the PLM (Product Lifecycle Management) market and issues concerning its development and growth. Participating companies came together to hear CIMdata’s perspective on market development and trends, and to discuss the important issues impacting PLM strategy and business performance.

This year’s theme “PLM Matures: The Community’s Strategy for Success” provided a focused review and discussion of challenges, opportunities and effective business strategies for suppliers in this rapidly-

CIMdata PLM Industry Summary

growing market that continues to mature and evolve.

A perspective on the state of the PLM market and important industry trends was presented by Ed Miller, President of CIMdata. “The PLM market is now recognized as a major enterprise-solution investment for user companies. The consolidation among major solution providers in the market is an indication of the scale and attractiveness of potential opportunities for the community,” he noted, adding that companies are placing increased focus on leveraging their basic PLM investments in a variety of ways.

“Within the industries that have traditionally invested in PLM, new niche offerings that expand the scope and value of PLM solutions are being developed,” said Miller. “More cost-effective solutions are offered to smaller companies, and industries that have not traditionally invested in PLM are becoming more aware of its potential value and demanding solutions that address their needs. While this PLM expansion reinforces the maturing of the base market, it nevertheless highlights the tremendous potential that remains and the need for the PLM community to come together in addressing the evolving direction of the industry.”

Suppliers discussed these and other trends, and appreciated the opportunity to participate in a frank and open forum for the exchange of ideas and perspectives with peers as well as CIMdata consultants and analysts. “It was very valuable and informative to discuss both the current state of PLM and exciting new developments such as the emergence of Enterprise Simulation Management in a vendor-neutral and collegial setting,” said John Janevic, Senior Director of Global Marketing and Business Analysis at MSC Software. “This type of dialogue provides critical input to our planning process.”

Peter Schroer, CEO of Aras Corp, noted that “The CIMdata Vendor Forum was a very productive investment for us. This was the right forum for us to meet with potential partners for our open source PLM software solutions, and to learn about the market trends driving end-user deployment of PLM technologies. We agree with CIMdata’s goal of building a more vibrant PLM Community, and look forward to the participation of our open source PLM community members in future CIMdata events.

Terri Pruett, Senior Director of Corporate Marketing for Agile Software emphasized the educational value of the Vendor Forum, “This event provides PLM vendors with opportunities to network and discuss issues common to everyone in the market, and to both learn about and validate interesting and new issues that we all face.”

CIMdata also unveiled its analysis of the PLM market through 2006 and early 2007. A presentation by Ken Amann, [CIMdata](#) Director of Research, included statistics on market growth across industries and regions, and the revenue performance and market share analysis of leading PLM solution providers. “The PLM market demonstrated significant growth and experienced a stronger than expected year in 2006,” explained Amann. “Our research indicates that the overall PLM market grew 10.4% to reach \$20.1 billion in 2006. This strong growth rate is attributed to continued recognition of the value of PLM in improving companies’ business performance.” According to Amann, PLM investments are forecasted to continue their climb over the next five years, increasing at a compound annual growth rate of approximately 8.5% to exceed an estimated \$30 billion by 2011.

These statistics together with the CIMdata insight into market trends, user perceptions and industry directions provide important information vendors indicated they use in formulating their business strategies.

“The CIMdata Vendor Forum is about more than getting an early view of their PLM market numbers. The CIMdata consultants work closely with end users to select strategic PLM technologies,” explained Stan Przybylinski, Manager of Business Intelligence at Dassault Systèmes. “The Forum is a good place to understand their insights into the user community.”

Jon Heidorn, Vice President of Marketing America at UGS, said he found the depth of CIMdata’s analysis of the PLM market valuable and very informative, and he noted overall that “CIMdata’s vision of the evolution and breadth of the PLM industry is enlightening. I appreciated the challenge that as players in this industry we all have a part to play in moving the PLM industry forward.”

What is PLM?

PLM is a strategic approach that applies a consistent set of business solutions in support of the collaborative creation, management, dissemination, and use of product definition information. It spans the extended enterprise from product concept to end-of-life—integrating people, processes, business systems, and information. Leading solution providers recognize the importance of PLM to business, and major industrial firms are already reaping significant benefits from their PLM implementations, in sectors ranging from aerospace and automotive to consumer packaged goods and petrochemical.

PLM ties together design, manufacturing, field service, purchasing, marketing, suppliers, customers, and other organizations and disciplines throughout extended intercompany supply chains. PLM allows companies to maximize their investment in resources, supply chain participants, and current and future IT technologies. It enables companies to unleash their past investments in multiple IT solutions, while maximizing their return-on-investment.

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CIMdata News

CIMdata in the News: PLM Roundtable, Part 2; Closing in on Nirvana?

April 2007

In the April issue of Desktop Engineering (DE), a seven-member panel of Product Lifecycle Management experts discuss the economics of effective product lifecycle management systems and how improved processes will lead to market success. Ed Miller, President of CIMdata, is one of the featured experts who addresses the following question on the future of data management:

DE: Where will the data management segment of the PLM market go in the future? Will the big ERP and CAD companies dominate? Do you see any place for smaller, independent firms offering only data management?

Miller: Where will it go? It's continuing to evolve. The market has matured a bit, and what you see is that core data management capabilities have become much more robust, with continual expansion of what's included within the core. PLM vendors are expanding their offerings to include capabilities that are useful to particular industry sectors, for example, formulation management for food and beverage companies. The vendors are also expanding functionality that is useful across many industries with capabilities like strategic sourcing, requirements management, or portfolio management.

Regarding your question about the ERP suppliers, they will play a major role but won't dominate. The major CAD suppliers have expanded their solutions into broad PLM offerings and will continue to play a major role as well. In addition, there are certainly market niches where a number of other suppliers have established a key position. For instance, Prodika (recently acquired by Agile Software) is a small firm that is focused specifically on the food and beverage industry and has been well received. There are many other examples of successful PLM suppliers that are not behemoth companies.

To read what all the experts have to say, please access, [PLM Roundtable, Part 2](#), (Desktop Engineering, April 2007), written by Nancy Rouse-Talley.

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CIMdata in the News: Acorn Charts a Course to Global Product Development with PDM

9 April 2007

How is a small company, Acorn, strategically orchestrating its product development and engineering practices on a global scale? Beth Stackpole in [Design News](#) observes that “high on the list of hurdles for Acorn, and any company pursuing global development is creating business models that support a multi-site approach, putting processes in place to enable round-the-clock development across time zones, embracing tools to foster collaboration and file sharing across remote engineering sites and last, but certainly not least, addressing the cultural differences between geographic regions.”

Ken Amann CIMdata Director of Research shares his perspective on these hurdles, “People work and think differently depending on their personal and organizational cultures — using the same words does not always mean the same thing and that can cause confusion. Helping workers in different organizations, time zones and cultures understand how others work and what they need to accomplish improves communication, the proper setting of expectations and collaboration.”

To learn more about Acorn's strategic approach to overcoming these hurdles, please read [Acorn Charts a Course to Global Product Development with PDM](#), (Design News, April 9, 2007), Beth Stackpole, Contributing Editor.

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Company News

aPriori Launches Blog on Enterprise Cost Management

13 March 2007

[aPriori](#) announced the launch of its CostCents blog at <http://www.costcents.com/>. CostCents offers valuable information and discussions for professionals interested in improving the financial metrics of discrete product and manufacturing companies.

Many product companies face issues around controlling costs in an increasingly competitive and regulated environment. CostCents will discuss how companies can address these issues by proactively integrating Enterprise Cost Management into design, sourcing and production processes.

CostCents is for anyone looking for answers in dealing with the following product costing issues:

- Inefficient and labor-intensive costing processes
- Fragmented and uncontrolled costing information across the enterprise
- The negative impact of inaccurate product costing on time to market and profitability

The CostCents blog is designed to address the needs of a broad spectrum of readers: CEOs, CFOs and general managers who have responsibility for contribution to corporate EPS and to whom the Cost of Goods Sold (COGS) would be a significant metric; executives in engineering, sourcing, manufacturing and finance; design engineers; spend managers; procurement buyers; manufacturing engineers; finance professionals; program and project managers; value analysis/value engineering and cost managers; and analysis professionals who need to better understand, manage and control their product costs.

The blog will discuss a wide range of topics including higher-level concepts around the definition of cost-related information and philosophy of cost-related activities being used currently in industry, understanding the latest trends and thoughts around cost modeling and product cost management as well as understanding how everyday design, manufacturing and sourcing decisions contribute to a product's costs.

CostCents Moderators

CostCents is moderated by Eric Arno Hiller and Carsten A. Hochmuth, Ph.D.

Eric Arno Hiller is the founder and Chief Product Officer of aPriori. Eric holds an MBA from Harvard Business School and master's and bachelor's degrees in mechanical engineering from the University of Illinois at Urbana-Champaign.

Carsten A. Hochmuth is responsible for product marketing and partner development at aPriori. He holds a doctorate in mechanical engineering from the Massachusetts Institute of Technology and has consulted with many leading software and hardware companies.

In addition, many industry experts and guest authors will be regularly featured on the blog.

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ASCON Group and JL Labs Software Solutions Signs Distribution Agreement

11 April 2007

ASCON Group announced that it has signed an agreement with JL Labs Group of companies, well-known CAD/CAM distributor in Sweden. JL Labs will distribute, provide training and support facilities for KOMPAS family of MCAD solutions throughout Sweden and Norway.

KOMPAS-3D – solution for Parametric 3D Solid Modeling and KOMPAS-Graphic, intended for 2D Drafting and Design. JL Labs says: “KOMPAS is a perfect addition to our business. We are looking forward to offer the Scandinavian CAD users a CAD/PDM system that will not only increase their productivity, but also cut down on training time and costs. KOMPAS will be an appreciated product on the Scandinavian markets”

“Cooperation with JL Labs will extend ASCON facilities in Scandinavia region,” - says Maxim Bogdanov, Chief Marketing Officer at ASCON, “We aim at making our services closer to customers' sites and while choosing the partners we pay considerable attention to company experience and reputation. We believe that JL Labs will suggest qualified and proper support for KOMPAS customers in the territory”.

About ASCON Group

ASCON Group (<http://www.ascon.ru/english/>)- ASCON group of companies (<http://www.ascon.ru/>) is a leading Russian CAD/PDM developer and integrator.

About JL Labs Software Solutions

JL Group (<http://www.jlgruppen.se/>) provides solutions for the Scandinavian mechanical industry. JL Labs started out in 1996 and became a part of JL Group in 2004. JL Labs provides CAD/CAM training and support in its offices in Halmstad, Sweden.

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Dassault Systèmes Named The PLM Leader In 2006 CIMdata Market Analysis; DS Named Overall PLM Direct Revenue and Mindshare Leader

11 April 2007

CIMdata PLM Industry Summary

Dassault Systèmes ([DS](#)) announced it ranked first in direct and mindshare PLM revenues in the 2006 CIMdata survey of comprehensive PLM companies. Ann Arbor, Michigan-headquartered CIMdata is one of the world's leading PLM consultancies.

“Dassault Systèmes is the 2006 overall PLM revenue leader among the top tier of comprehensive PLM companies – the players that customers typically acknowledge are driving the market,” said Ed Miller, president of CIMdata. “The company has made many strategic moves over the last few years to expand their PLM offerings as customer needs have evolved. As our analysis shows, the market has noticed by rewarding Dassault Systèmes with very high recognition, growing revenues, and a strong market share.”

CIMdata's PLM Market Analysis calculated Dassault Systèmes “market footprint” at \$2.9 billion, or over \$800 million more than the nearest competitor. The report defines market footprint as the company's direct and partner-generated PLM revenues. The PLM Market Analysis also ranked Dassault Systèmes as the leader in direct revenues at \$1.5 billion, or almost \$300 million more than the nearest competitor. The report also ranked DS first in revenue of the PLM Mindshare leaders. Mindshare leaders are the companies with the largest and most innovative PLM implementations, and those perceived by customers as thought and technology leaders. In addition to Dassault Systèmes' revenue and mindshare leadership, CIMdata's analysis indicates Dassault Systèmes grew its collaborative product definition management [cPDM] revenues by 59 percent, the fastest among its main competitors fueled by both internal growth and its acquisition of MatrixOne.

“Perhaps the most gratifying part of this report is seeing that Dassault Systèmes is the company most often associated with the term PLM,” said Philippe Forestier, Dassault Systèmes' executive vice president, Network Selling, and the company's leading executive in the Americas. “Not only is our share of the collaborative product definition management [cPDM] sub segment growing faster than any of our competitors, but CIMdata also documented a 10.4 percent increase in overall PLM spending in 2006. We are happy to know that the market Dassault Systèmes leads has such momentum.”

The PLM revenue figures include the main functional areas of PLM, from design authoring to enterprise collaboration to digital manufacturing, plus complementary applications from companies and their partner networks. To rank among PLM mindshare leaders, companies must have a comprehensive product and service offering that covers the entire product development cycle and supporting business processes.

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Gerber Technology Appoints New Strategic PDM/PLM Account Manager

10 April 2007

[Gerber Technology](#) announces that Richard Farb has joined Gerber Technology as strategic PDM/PLM account manager. He will be based in New York City reporting to Jonathan Smith, sales manager, PDM/PLM products, North America.

Farb comes to Gerber with more than 25 years of sales and marketing experience in the apparel industry, including five years as CEO of The Edge, a maker of contemporary casual clothing. His experience includes launching new products and creating innovative programs to penetrate new markets to increase sales. His most recent focus has been targeting and executing PDM/PLM initiatives to increase speed to market.

Farb holds a Bachelor of Science degree in business from the University of Miami, Miami, Fla.

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Lattice Technology Moves US Headquarters

9 April 2007

[Lattice Technology, Inc.](#), developers of the XVL ultra-compressed 3D data format, announced the change of address for its San Francisco offices.

The US headquarters of the technology firm has moved into one of San Francisco's most recognizable historic structures the Hobart Building, located centrally in the 500 block of Market Street.

"Due to the success of Lattice Technology's North American and European operations over the last year, we are adding additional support staff to our team," Bill Barnes, General Manager of Lattice Technology, explains. "We've outgrown our existing offices, and we're delighted to find such beautiful new accommodations in the heart of San Francisco. The new offices will absolutely allow us to better serve our North American and European clientele."

Lattice Technology's new address is 582 Market Street, Suite 1215, San Francisco, CA 94104. Phone and email contacts will remain the same.

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SoftInWay Appoints Charisma Careers as AxSTREAM Distributor in India

11 April 2007

SoftInWay announced that it has broadened the company's world sales network by completing an agreement with Charisma Careers Private Ltd to provide distribution of its AxSTREAM™ Suite of Multidisciplinary Design Optimization software to the Indian turbo-machinery industry.

Charisma Careers is a leading seller of CAE software in India, representing brands such as Codeware and BENTLEY Systems. "Charisma Careers association with SoftInWay will expand the mission of further modernization and reliable analysis of the turbo-machinery used in industrial sectors" said Mr. Narendra Roy, Director. "Introduction of AxSTREAM for analysis and design of turbo-machinery shall benefit the power, defence, and industrial manufacturing industries in India through optimization and enhancing the

reliability of the systems. Project engineering consultants and experts of technical trouble-shooting of turbo-machinery system will be benefited the most.”

We are very pleased to be establishing a relationship with such an experienced CAE solutions provider as Charisma Careers” stated Dr. Leonid Moroz, President of SoftInWay. “Their strong knowledge of industrial markets and their commitment to providing the highest levels of technical support for their customers will be great strengths in establishing our design optimization software in our target markets.”

Charisma Careers will also be distributing the axial and radial educational versions of AxSTREAM to engineering colleges and universities in India. These educational versions are valuable tools in any compressor or turbine design curriculum and allow students to learn using “real world” design platforms.

About SoftinWay

A USA corporation, headquartered in Burlington, MA, SoftInWay develops products for rapid turbo-machinery design, provides technical engineering services, and uses in-house and industry standard CFD, FEA and CAD tools to address design issues at the earliest possible stage to maximize engineering productivity and increase the efficiency and reliability of equipment. The core product, AxSTREAM™, is an integrated solution based on the over 400 years of collective turbo-machinery experience of the SoftInWay's engineering team.

About Charisma Careers

"To assist the organizations and individuals in identifying the technical analysis and training needs and requirements, fulfilling the same and synergizing the efforts of human resource development in a systematic way" is the motto of Charisma Group, a group incorporated in India and New Zealand.

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SolidWorks Corporation Announces 1,000 additional Software Grants for ‘STEM’ Teachers

11 April 2007

SolidWorks Corporation announced it would grant as many as 1,000 new licenses of SolidWorks® Student Edition 3D CAD software to individual U.S. educators dedicated to improving students’ science, technology, engineering, and math (STEM) skills.

The SolidWorks-STEM Educators II grant is the second consecutive year of the initiative and includes training and lesson plans to help teachers and faculty from elementary school through college integrate the four separate disciplines for more effective education.

“3D CAD software is a perfect storm of science, technology, engineering, and math, and it brings these disciplines home in a vivid, interactive way that nails the question, how is this relevant?” said Herbert Crosby, professor of mechanical engineering technology at the University of Maine. Crosby was among the first educators to secure a SolidWorks STEM grant and create a course using SolidWorks software to strengthen STEM instruction.

[Click here](#) to listen to a podcast interview with Marie Planchard, director of education for SolidWorks..

CAD software is adept at conveying 2D and 3D geometry concepts to younger students and illustrating algebra and physics principles in later years. Teachers can apply these topics in a wide range of engineering projects – for example, designing small-scale cars or simulating the effects of design changes on air flow.

With backing by the National Science Foundation (NSF), STEM is an emerging movement in American education aimed at improving technological literacy and global competitiveness. STEM addresses warning signs found in numerous studies showing the United States falling behind in engineering graduation rates and math/science proficiency.

“3D CAD brings science, technology, engineering, and math together in a dramatic and effective way that foreshadows how students can apply their skills in high-paying careers,” said Marie Planchard, director of education at SolidWorks Corporation. “STEM education with SolidWorks gives students the ability to compete in a global engineering design world.”

The SolidWorks-STEM Educators II grant includes:

- One copy of SolidWorks Student Edition software;
- SolidWorks Education Edition curriculum and courseware CD for instructors;
- A self-paced online course that demonstrates ways educators can incorporate 3D geometry with STEM concepts;
- 20 hours of step-by-step tutorials;
- Access to the SolidWorks Teacher Community Web site at <http://blogs.solidworks.com/teacher>;
- Monthly online SolidWorks-STEM symposia focusing on new approaches to math (including algebra and geometry), biology, chemistry, physics, art, and economics;
- Opportunity to become certified as a Certified SolidWorks Associate; and
- Opportunity to accredit one’s institution as a Certified SolidWorks Associate Exam Provider.

After completing the online course, teachers must demonstrate their competency by producing a short STEM lesson for the classroom that will be shared on the SolidWorks Teacher Community Web site. SolidWorks will then provide an electronic certificate to the teacher documenting 30 hours of professional development work.

Teachers that receive a certificate are eligible for additional advanced online training classes preparing them for the Certified SolidWorks Associate (CSWA) Exam. Primarily for students, the CSWA Exam is a comprehensive assessment that measures competencies in 3D CAD modeling technology, engineering principles, standards, and industry practices. It helps educators gauge individual student progress as well as curricula effectiveness. The CSWA certification gives manufacturing companies and design firms tangible proof of competency as students enter the job market. When a grant recipient passes the exam, the institution becomes eligible to become a CSWA Provider. The CSWA Exam is available in the following languages: English, Chinese, French, German, Japanese, Spanish, and Brazilian Portuguese.

How to apply

Teachers must apply for SolidWorks-STEM Educators II grants by May 30, 2007 at <http://www.solidworks.com/stemgrant>. Grants will be awarded in May and June 2007, and assignments must be completed during the summer of 2007. For more information, listen to a podcast on the SolidWorks-STEM Educators grant at <http://www.solidworks.com/mediapodcast>.

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UGS Recognized as a PLM Leader and Number One in cPDm Market Presence According to Leading Product Lifecycle Management (PLM) Industry Consulting and Research Firm CIMdata

10 April 2007

[UGS Corp.](#) announced that in the recently released [market analysis](#), leading PLM industry consulting and research firm CIMdata, Inc. recognized UGS as a PLM leader and as the vendor with the top market presence in the Collaborative Product Definition Management (cPDm) market segment – the most critical and fastest growing segment of the PLM industry.

This in-depth data and analysis of the PLM market was released in April 2007 and builds on information presented by CIMdata in their 2006 PLM Market Analysis Report released last year. Based on market estimates, the CIMdata analysis ranked UGS number one in terms of market presence among cPDm mindshare leaders in 2006. The market presence achievement also signals the health and growth of the UGS Partner Program.

“UGS with Teamcenter continues to be the market presence revenue leader in the critical area of cPDm for the fourth year in a row,” said Ed Miller, president of CIMdata. “UGS’ Teamcenter portfolio remains the cornerstone of their PLM and cPDm strength.”

According to CIMdata, cPDM is forecast to be the fastest-growing segment of the PLM market with a 13.9 percent compound annual growth rate (CAGR) to exceed \$13 billion in 2011 – nearly twice as fast as other PLM sub-segments. CIMdata estimates that the PLM market as a whole will grow at a CAGR of 8.5 percent to approximately \$30 billion by 2011.

“Market analysts once again recognize UGS’ leadership position in this critical area of PLM – cPDM – and for the fourth year in a row, UGS’ cPDM presence far outpaced that of the nearest PLM vendor,” said Dave Shirk, executive vice president of global marketing for UGS. “Our Teamcenter launch later this year will only add to the excitement around our cPDM innovation. Our strong revenue performance along with the revenue from our partners is an indicator of the success of our open business strategy and ability to form strategic, beneficial partnerships with multiple major systems integrators and software vendors. UGS remains committed to the global innovation networks that the world’s leading manufacturers are leveraging to build the most innovative products.”

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Events News

Apache Design Solutions to Present Power and Noise Solutions for 90/65/45nm SoC Designs at 2007 DATE Conference

11 April 2007

Apache Design Solutions announced that the company will present their power and noise solutions for silicon integrity of 90/65/45nm SoC designs at the DATE (Design Automation and Test Europe) conference held on April 17-19, 2007 in Nice, France. Apache’s customers, STMicroelectronics and NXP Semiconductor, will also be presenting their experience with Apache’s products at the Exhibition Theatre on April 17th at 12:20 p.m. and April 19th at 11:20 a.m., respectively. STMicroelectronics will present how Apache’s PsiWinder helped them explore dynamic electrical effects on the clock network, and analyze and fix clock jitter issues in their designs. NXP will share how Apache’s RedHawk enabled them to manage the dynamic voltage drop of their high-frequency low-power mixed-signal designs, thus allowing them to meet the challenging signal and noise specifications.

WHO: [Apache Design Solutions, Inc.](#)

WHAT: Presentation and demonstration of power and noise solutions for silicon integrity of SoC designs.

Testimonial presentation titled "Clock tree analysis in the light of dynamic electrical effects using Apache's PsiWinder tool" by Vincent Grenet, Digital Methodologies & Design Support Engineer, STMicroelectronics.

Testimonial presentation titled "Power integrity analysis for high frequency, low-power mixed-signal designs using Apache's RedHawk" by Patrick Renaud, Senior SoC Designer, NXP Semiconductor.

WHERE: 2007 DATE Conference, Acropolis, Nice, France. For more information please visit <http://www.date-conference.com/>.

WHEN: Tuesday, April 17, 2007 - Thursday, April 19, 2007

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Aras Discovery Workshops

April 2007

These Aras Discovery new workshops are designed to help explore the possibilities of how Aras solutions can support your company's specific strategic initiatives.

Each workshop combines hands-on exercises, overview presentations, and discussions to provide an understanding of how Aras can be applied to your business processes and corporate environment.

Upcoming Discovery Workshops - Boston, MA

May 15 - Project Program Management

May 16 - FMEA Quality Planning

May 17 - Configuration & Change Management

[Learn More & Register Now >>](#)

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Dassault Systèmes Announces Principal Sponsorship of 2007 NAFEMS World Congress

13 April 2007

Dassault Systèmes (DS) announced that its [SIMULIA](#) brand for realistic simulation is the principal sponsor of the 11th NAFEMS World Congress on simulation technology, to be held May 22-25, 2007, in Vancouver, Canada. This year's Congress features workshops, training classes, roundtables and more than 130 presentations on analysis and simulation technologies.

SIMULIA is sponsoring the congress to showcase its leadership in advancing realistic simulation methods and technology. SIMULIA has authored or co-authored five papers that will be presented during the international conference and will also present in three associated workshops.

Papers to be presented at the NAFEMS Congress include:

- The System Level Integrity Study of the Jaguar S-Type Rear Suspension Using an Integrated FEA and MBS Technique, co-authored with Jaguar/Land Rover LTD
- Accurate and Efficient Modeling of Point and Surface Engineering Connections
- Building Blast Simulation, co-authored with University of Florida
- Coupling FEA to CFD to Investigate the Effects of Pulsatile Blood Flow on the Dilatation of Artery Walls, co-authored with W.L. Gore & Associates
- New Capabilities for Composite Fracture Analysis, authored in cooperation with ATA Engineering Inc

The three workshops in which SIMULIA will participate will cover areas of multiphysics solutions, open multidisciplinary interfaces, and flexible-body mechanism simulation. The SIMULIA team will also demonstrate their solutions at in the conference exhibition hall.

More information about the NAFEMS World Congress is available at <http://www.nafems.org/congress>.

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Gerber Technology to Highlight “Tomorrow’s Vision. Today’s Reality.” at SPESA Expo 2007

9 April 2007

During SPESA Expo 2007 to be held May 8-10 at the Miami Beach Convention Center in Miami Beach, Fla., Gerber Technology will feature its entire suite of automation solutions. A number of new products will be demonstrated for the first time in North America and additional products will be introduced at the show. Gerber’s booth will be a reflection of its theme: “Tomorrow’s vision. Today’s reality.” which underscores the company’s visionary approach to providing technologies for the various sectors of the flexible materials and sewn products industries that not only meet the needs of companies today but also address future requirements as well.

Products to be Featured at [SPESA Expo 2007](#)

At SPESA Expo 2007, Gerber will feature its newest additions to the GERBERSuite® product line for the apparel and other sewn products industries including:

Fashion Lifecycle Management™ (FLM™) is a new Product Lifecycle Management (PLM) solution from Gerber designed to meet the specific needs of the fashion market. Fashion Lifecycle Management™ combines an enterprise-wide, collaborative workflow engine with Gerber’s WebPDM, the most feature-rich PDM solution. The workflow engine is fully integrated with WebPDM to enable global, real-time visibility and control over the entire product development and lifecycle management process.

AccuNest is Gerber’s high performance automatic marking software. AccuNest utilizes state of the art algorithms to deliver the best fabric yields in the industry today. Users report that AccuNest makes markers faster and better than their manual marker makers.

The **Infinity** series of wide-format high-performance inkjet plotter provides reliability, versatility, and ease of operation. Gerber's Infinity 85 is ideal for continuous plot throughput in an ultra-wide format, offering faster plotting than the previous models and providing the ability to remotely monitor ink and paper levels. The Infinity 85 features a new 350 ml bulk ink supply which will save an estimated 15% on ink costs and decrease down time due to ink out. Like its predecessor, this compact, upright plotter is quiet, easy to install and requires minimal floor space.

The **GERBERcutter XLc7000** is the ideal automated system for manufacturers who want to automate their production and are looking for value-priced solutions that offer exceptional reliability and performance. It offers low cost of ownership, superb accuracy and exceptional ease of use. The XLc7000 cuts a variety of materials up to 2.0 m (79 in) wide at compressed material heights up to 7.5 cm (2.95 in).

The new high-quality, high-performance automated GERBERspreader XLs50 is specially designed for the apparel industry. It is capable of spreading woven or knit materials from either rolls or flat-folded packs. The GERBERspreader XLs50 provides accurate and consistent spread length and alignment of fabric edges which enables parts to be nested closer to the beginning, end, and edges of the spread, eliminating end loss and optimizing material utilization. It also features an ergonomic design for easy material loading and unloading and an easy-to-learn graphical user interface.

Gerber 's Taurus X Series leather cutter with Pivex™ technology cuts automotive interior parts from leather faster and more accurately than any other automated cutting solution on the market. The Pivex knife eliminates over cuts and heel cuts on most parts to deliver the best quality available from an automated cutting system. The high-speed reciprocating action of the Pivex knife, in conjunction with the high friction table surface, minimizes hide movement, ensures precisely cut parts and enables users to cut custom notch shapes including many internal and external notches without sacrificing cutting speed or quality.

In addition to these exciting new products, Gerber will also showcase other GERBERSuite offerings. New product announcements will also be made during the coming weeks.

Commitment to Customer Service

As part of its ongoing commitment to customer service, GERBERService® manages seven customer solutions centers serving six continents. Each center is staffed by individuals who speak the local language and understand the local challenges. The GERBERService organization worldwide now totals more than 500 technicians, applications specialists and call center caregivers. This organization is supplemented by over 250 service specialists employed by Gerber Technology's agents and distributors. GERBERService supports more than 17,500 customers in 125 countries. GERBERnet includes software updates, online parts ordering, technical information and previously-owned equipment on auction. Access to GERBERnet is provided via <http://www.gerbertechnology.com/>.

Gerber to Participate in "The Cool Zone"

Gerber Technology will also be present in “The Cool Zone”, Pavilion 670 at SPESA Expo. Created by TC2, The Cool Zone will introduce a totally new set of alternatives to produce apparel products to meet the “on-demand era” that’s becoming a reality today. SPESA Expo attendees in Miami May 8-10 will be able to learn how by following a high-fashion t-shirt being designed, printed, cut and sewn, all while visiting The Cool Zone. Gerber Technology will supply a GERBERcutter DCS3500 with camera option to be used in the production of nano-colorant t-shirts right on the show floor. In addition, Gerber’s AccuMark V-Stitcher 3D pattern visualization software will be demonstrated in the Merchandising area of The Cool Zone.

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IBM and Dassault Systèmes To Host PLM Summit at COE 2007 Conference

11 April 2007

IBM and [Dassault Systèmes](#) announced they will host their annual PLM executive summit at the COE 2007 Annual PLM Conference and TechniFair to showcase PLM’s role in creating higher quality products and increasing profits by fundamentally changing business and product development models.

Customer case studies and speeches from DS and IBM executives will highlight the day-long summit, which kicks off three days of COE 2007 events. COE runs from April 29 to May 2 at the Rio All-Suite Hotel in Las Vegas.

Dassault Systèmes CEO Bernard Charles and IBM Worldwide Vice President, Product Lifecycle Management Albert Bunshaft will address PLM’s strategic role and their companies’ plans for developing new PLM solutions. Charles’ keynote address will focus on Dassault Systèmes’ PLM strategy, vision and product portfolio; current market and business trends. Bunshaft will describe how PLM is evolving into an enabler for business success and IBM’s role in delivering the tools to help companies meet demands for more efficient design processes.

Other featured PLM Summit speakers include:

Bentley Motors CAD Manager John Unsworth talking about Bentley’s virtual design process and the methodologies it used to develop its broader PLM strategy.

Goodrich Aerostructures Group Design Technologies Manager Phil Bjornsson discussing how Goodrich revamped its collaboration processes to meet the requirements of its position in Boeings 787 Dreamliner aircraft development process.

Faurecia Deputy CIO Phillippe Martin describing implementing of a PLM solution spanning 5,000 users at 30 sites worldwide.

Johnson Controls, Executive Director of Global Engineering Operations Rick Sturgeon describing his company’s LEAN manufacturing initiative.

The North American Eagle team explaining PLM's role in developing a 56-foot long vehicle to contend for the world land speed record.

COE (CATIA Operators Exchange) Annual Conference is an international gathering of designers and engineers who use Dassault Systèmes' software solutions including, CATIA, ENOVIA, DELMIA, and SMARTEAM, to develop product ranging from aircraft to vehicles to oil drilling platforms. In addition to the speakers, the three-day event includes more than 150 breakout sessions on topics ranging from working with composites to global project management to collaborative enterprise sourcing strategies. COE 2007 also features the Technifair, an exhibition of PLM-related hardware, software and services available from 60 Dassault Systèmes partners.

"IBM enthusiastically supports the CATIA Operators Exchange and welcomes the opportunity to help showcase leading PLM technologies while sharing ideas on where the industry is headed and how we can improve the experiences of our customers," said Bunshaft. "This gathering offers truly unique benefits to both PLM vendors and the designers and engineers who depend on their offerings for success in the marketplace."

"COE 2007 will demonstrate the full range and cohesiveness of Dassault Systèmes' partner ecosystem," said Philippe Forestier, Dassault Systèmes' executive vice president, Network Selling, and the company's senior Americas executive. "From the highest levels of corporate strategy to the most specific tools, customers and users can see the PLM universe's full expanse and choose what's best for them."

To learn more about IBM and PLM, visit <http://www.ibm.com/solutions/plm>.

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Maquitec Visitors Flock to See WorkNC G3 V19

10 April 2007

[Sescoi](#) previewed WorkNC G3 V19, the latest version of its CAM/CAD software, and demonstrated MyWorkPLAN, its job management software for small and medium sized custom manufacturing companies, at the Maquitec exhibition in Barcelona. This year's show was the biggest yet with over 21,000 visitors and more than 1,000 exhibitors, reflecting the optimism in the metalworking industry.

On the stand, SESCOI collaborated with machine tool distributor Juan Martin, running cutting demonstrations on an AWEA Model AF-610 supplied by the company. This is the first of many joint exhibitions and activities planned by the two companies which will also extend to the use of WorkNC to program Juan Martin's Mori Seiki and AWEA machine tools at training centers across Catalonia.

Both SESCOI and Juan Martin work in partnership with their customers to supply the most advanced software and machine tools, which will enable clients to realize the best possible return from their investment. SESCOI Iberia's WorkNC Product Manager Oriol Solà elaborated, "Juan Martin and SESCOI

share a common philosophy and goal, which is to optimize productivity and profitability through high quality products and technology transfer.”

Sescoi is continually enhancing its software and WorkNC G3 V19 is its third generation. The new G3 interface integrates design, data interrogation, CAM and simulation into one ergonomic screen, making the software even easier and more intuitive to use. The scope of machining cycles which include trochoidal tool movements has also been extended to include keyways and curves to simplify the high speed machining of hard materials, while 5-axis toolpaths have been refined to improve the fluidity of cutter movement. In addition, advances in simulation, collision detection and proximity warning add to the reliability of the toolpaths generated by the system.

Software benefits also extend to job management, with SESCOI's MyWorkPLAN system. Companies can use it to prepare accurate quotations, plan and monitor production, and obtain live reports on costs and delivery status. Designed for SMEs, MyWorkPLAN makes use of existing skills, and investment in commonly used office software, making implementation and training quick and easy.

The high volume of visitors to its stand confirmed SESCOI's view that successful engineering companies are demanding the best technology available, and that long term collaboration to optimize key business drivers will ensure an implementation that returns the best results.

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Open Text to Host Major European User Conferences in Munich and London

12 April 2007

Open Text™ Corporation said that it will showcase its integrated product roadmap, new solutions and major partner initiatives in Europe at its LiveLinkUp Europe 2007 user conferences next week. Open Text will hold two LiveLinkUp Europe 2007 events: In Munich, April 18, and in London, April 19.

Entitled: "ECM: Your Road to Innovation," the LiveLinkUp Europe conferences will bring together senior executives, corporate technology managers and executives from leading global organizations, who will converge and network with their peers, as well as the management, sales and marketing staff, and technical experts of Open Text. The events will include keynotes from Open Text senior executives, including Chairman and Chief Strategy Officer Tom Jenkins, and President and Chief Executive Officer John Shackleton.

The LiveLinkUp Europe 2007 conferences are the first combined European customer events of the new Open Text, bringing together both Open Text and former Hummingbird customers. The executive team will outline Open Text's strategic vision for ECM and unveil its latest solutions and product integration plans with Hummingbird products, as the company moves forward with a product and solution portfolio unmatched in the industry. In addition, RedDot, The Open Text Web Solutions Group, and Open Text's Hummingbird Connectivity™ division, will update delegates on their latest product initiatives.

A key focus for the events will be Livelink ECM 10, the next major release of Open Text's ECM offering. First unveiled last November with capabilities being rolled out this year, Livelink ECM 10 lets customers implement a true enterprise-wide content management strategy to preserve and protect intellectual capital, leverage business content across all applications, and effectively address governance and regulatory compliance requirements. The conferences will allow Open Text to outline for customers how the broad new capabilities in Livelink ECM 10 will help them achieve enterprise transparency—moving beyond simply tracking and controlling information to leveraging it for business advantage.

Many of Open Text's major European customers will be presenting at the events to discuss their Livelink ECM solutions and how they use ECM to manage information and improve processes.

"Over the past year, we witnessed the coming of age of Enterprise Content Management as a business necessity throughout the world and, most importantly, the continued success of our customers. With the addition of Hummingbird to the Open Text family, we are now the largest independent vendor of enterprise content management solutions in the world with the broadest range of ECM solutions and in depth domain expertise to apply to specific business and industry challenges," said John Shackleton, President and Chief Executive Officer at Open Text. "We are looking forward to interacting with our European customers and partners at LiveLinkUp."

The events will feature even more hands-on workshops and breakout sessions to choose from - delivered by customers, partners and Open Text staff. Conference presentations will highlight Open Text solutions for SAP and Microsoft, Document and Records Management, Contract Lifecycle Management, Information Lifecycle Management and much more. This year, the agenda also includes a vertical solution stream.

Product Roadmaps - A Glance at What the Future Holds

Alongside introductions to new capabilities in Livelink ECM 10 such as Enterprise Library Services and Open Text's future product strategy, delegates will receive an update on the Open Text solutions running on this platform for the management of contracts, customer information, and email. The conference will also feature a roadmap presentation on RedDot.

Open Text's Hummingbird Connectivity™ division will also be at the conferences with a series of presentations on host system connectivity, an area this Open Text division addresses with a comprehensive set of core network technologies that enable the enterprise to connect to any type of legacy system. The Hummingbird Connectivity family of products include Exceed®, Exceed onDemand®, NFS Maestro™, HostExplorer™ and Connectivity Secure Shell™.

Open Text Partner Exposition

Several Open Text partners will be showcasing solutions that complement Open Text products. The solutions will range from document capture and storage solutions to add-ons for Livelink ECM and services like consulting and implementation. Partners exhibiting at the events include AnyDoc, Atos Origin, Blubaker, Cadre SCM, Cardiff, Causeway, Centrom, Edoras, Hitachi Data Systems®, HP,

Kofax, LogicaCMG, Microsoft, Oracle, Perfectus, RSH, SAP, SAW, Steria, Sun Microsystems, T-Systems and WeWebU.

Venue Information

LiveLinkUp Europe 2007 will take place in two European venues: on April 18th at Munich's Kempinski Airport Hotel, and on April 19th at The West Stand at Chelsea Football Club in London, England. For further information and to register, please visit: <http://livelinkup-europe.opentext.com/>

Open Text will be holding a third European conference, LiveLinkUp Paris 2007, on June 7th at Coeur Defense. For further information and to register for this event, please visit: <http://livelinkup-europe.opentext.com/paris/>

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Promise of “Co-Innovation” Attracts Wave of New SAP Customers, Partners to SAPPHIRE(R) '07

10 April 2007

SAP AG announced plans for its upcoming SAPPHIRE® '07 international customer conferences, to be held in Atlanta, Georgia, April 22-25 and in Vienna, Austria, May 14-16. Over the past three years, attendance at SAPPHIRE has grown from more than 9,000 in 2005 to 15,000 in 2006, indicating accelerating support for the company's vision and increased interest among customers and partners in co-innovating the next generation of solutions and best practices. This year, SAP will introduce a new model for ecosystem co-innovation, helping to transform SAPPHIRE from a vendor conference to an industry forum that supports companies in collaboratively addressing IT and business challenges. In addition, to maximize the value of customer insight and peer exchange, SAP and the Americas' SAP Users' Group (ASUG) are co-locating their premier events in Atlanta, where the 2007 ASUG Annual Conference takes place from April 22 to 25.

Combined, the SAPPHIRE conferences will feature more than 230 presentations from businesses and public sector organizations of all sizes that are empowering their workforces and differentiating their organizations through innovative business processes designed on enterprise service-oriented architecture (enterprise SOA). Customers and partners will also gain first-hand insight into the SAP product road map, including the near-term plan for delivering the first fully integrated software suite built on a flexible business process platform.

Nearly 200 demo stations on the conference floors will offer interactive presentations featuring topics such as creating applications for enterprise SOA using SAP NetWeaver, defining and documenting services and business process integration. In addition, the event will feature 30-minute guided tours every hour showcasing SAP NetWeaver in action. Customers will have the opportunity to explore how SAP's wide range of solution sets and applications can empower their businesses.

Keynote presentations will feature Hasso Plattner, co-founder and chairman of the Supervisory Board, SAP; Henning Kagermann, CEO and chairman of the Executive Board, SAP; and Léo Apotheker, president CSO and deputy CEO, SAP. During their keynotes, SAP executives will chart SAP's vision for the future and outline how, industry by industry, SAP and its ecosystem of partners will help companies transform their digital business technology into a strategic lever for competitive differentiation.

In addition, Philip Lay, co-founder and managing director at the Chasm Group Advisors, will deliver a keynote address. Lay possesses more than 25 years of experience working in the IT industry, helping executive teams and boards to address strategic problems affecting their success in the marketplace.

Further SAPHIRE '07 program information can be found at <http://www.sap.com/sapphire>. Customers can register for SAPHIRE '07 Atlanta online at <http://www.sap.com/usa/sapphire/register> or for SAPHIRE '07 Vienna at <http://www.sap.com/emea/sapphire/register>.

Users, Customers Unite in Atlanta

ASUG, the American SAP Users Group, will be holding its ASUG Annual Conference from April 22 to 25, 2007 also at the Georgia World Conference Center, to coincide with SAPHIRE. Due to the co-location of these two premier ecosystem events, SAP users and customers have the chance to examine all aspects of SAP and its various solutions, focusing on which programs work best under specific conditions. The U.S. events are expected to bring more than 15,000 guests to the Atlanta area, joining SAP customers, partners, users and employees for the one-of-a-kind convention. The ASUG keynote presentation will feature Marcus Buckingham, best-selling author and former Gallup Organization researcher, speaking on "The One Thing You Need to Know About...Managing."

Additional ASUG conference information is available at <http://www.asugannualconference.com/>. Customers can register at www1.event-projects.com/ASUG/AnnualConference2007/.

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Si2 Announces Common Power Format Workshop at DATE, Design Automation and Test in Europe 2007

10 April 2007

Silicon Integration Initiative (Si2) announced a Common Power Format Workshop to be held at DATE in Nice, France on Wednesday, April 18, 10 a.m.-12 p.m., Acropolis Room – MAIA. A full agenda and free registration information is at: <http://www.si2.org/?page=807>.

Low-power requirements are a primary concern for IC design. They affect all electronic systems. In addition to portable battery-operated devices other electronic products are experiencing pressure to reduce power consumption, such as computers in data centers where the enormous energy use is becoming a major global concern. The Common Power Format (CPF) specification holistically captures

low-power design intent so that it can be used to consistently communicate low-power intent throughout the IC design flow.

This Workshop will cover details of Si2's CPF specification that was approved by the Si2 Low Power Coalition (LPC) in January 2007. The Workshop will start with a detailed review of the Common Power Format specification and be followed by presentations from design chain companies implementing CPF. Completing the agenda will be an overview of the work proceeding in Si2's Low Power Coalition.

The Low Power Coalition (LPC) will deliver enhanced capabilities in low-power Integrated Circuit (IC) design flows in particular relating to specifications of low-power design intent, architectural tradeoffs, logical/physical implementation, design verification and testability. The latest list of LPC members can be found at: <http://www.si2.org/?page=751>.

[Si2](#) is an organization of industry-leading semiconductor, systems, EDA, and manufacturing companies focused on improving the way integrated circuits are designed and manufactured in order to speed time to market, reduce costs, and meet the challenges of sub-micron design.

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Synopsys Congratulates Best Paper Award Winners at Its Largest Ever Annual Users Group Conference

11 April 2007

[Synopsys, Inc.](#) announced the Best Paper Awards for the 17th annual Synopsys Users' Group (SNUG) in Santa Clara, CA. 'SNUG San Jose' is the largest user's conference in electronic design automation (EDA) and one of the largest gatherings of design engineers in North America. It is the flagship event of a global program that last year drew almost 5,000 chip and system design engineers to 10 such conferences in North America, Europe, Japan and Asia Pacific. This year, a record-breaking 1,574 users attended SNUG San Jose, a 23 percent increase over last year's event. At the technical conference, The Best Paper--First Place and Technical Committee Honorable Mention went to Paul Zimmer of Zimmer Design Systems for "Where Have All the Phases Gone? Using Multiclock Propagation in PrimeTime." The Technical Committee Award went to Eliseu Filho of Starport Systems for "Implementation of an AHB Bus Subsystem with SystemVerilog."

The Best Paper, Second Place Award and Technical Committee Honorable Mention went to Stuart Sutherland of Sutherland HDL, Inc. and Don Mills of LCDM Engineering for "Gotcha Again--More Subtleties in the Verilog and SystemVerilog Standards that Every Engineer Should Know."

The Best Paper, Third Place Award went to Leah Clark of Broadcom Corporation for "Don't Panic! What to do when Formality Doesn't Give You the 'VERIFICATION SUCCEEDED' Message on the First Try." The Best First Time Presenter Award went to Steven M. Waldstein of Tundra Semiconductor for "How to Verify and Integrate Mixed Signal Third-Party IP."

Aart de Geus, chairman and chief executive officer at Synopsys, gave an opening-day keynote that explained how Synopsys is helping users navigate a design environment of increasing scale and systemic challenges by providing solutions with higher levels of abstraction and increased modeling capabilities. A highlight of the conference was a speech by Steve Squyres, principal scientist for NASA's Mars Exploration Rover Missions. Dr. Squyres told attendees how a team of more than 4,000 highly motivated engineers and scientists overcame a host of technical challenges to develop the Mars Rovers.

"Even in a complex mission such as a Mars landing, you can't lose sight of the technical contributions that are made by engineers like those here at SNUG," said Dr. de Geus. "Complex silicon systems help make planetary exploration possible, and many of the designs at the heart of these systems result from the free exchange of ideas and methodologies. SNUG gives us all a chance to explore ideas like these, and to consider solutions to current and future technical challenges. We congratulate this year's Best Paper Award winners and thank them for sharing their technical knowledge and experiences with fellow users."

SNUG San Jose Sponsors include: Global Sponsors ARM and TSMC; Gold Sponsors Hewlett-Packard, Virage Logic, and Common Platform Technology members Chartered Semiconductor, IBM and Samsung; and Silver Sponsor Sun Microsystems. The three-day SNUG San Jose conference featured 52 technical presentations, 36 tutorials and 14 panels, all presented by Synopsys users and experts to fellow design engineers. These presentations focused on the challenges that engineers face as they design complex systems for a wide array of applications. Two new types of sessions, delivered by Synopsys technologists, were introduced at this year's event. Product Direction Panels offered a sneak peek at what Synopsys is doing in the verification, implementation, analog/mixed signal and design for manufacturing (DFM) arenas. Technology Vision sessions explored the future of the EDA industry in two key areas: low power and system-to-silicon verification. Synopsys also launched a new micro-site during the event: www.SoCDesignSource.org offers the latest information and resources for low-power design.

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The MathWorks Showcases Model-Based Design at SAE World Congress 2007; MathWorks Experts and Engineering Students to Highlight Use of MathWorks Tools in the Automotive Industry

9 April 2007

Who: [The MathWorks](#), a leading developer of technical computing and [Model-Based Design](#) software for engineers and scientists in industry, government, and education; and participants from [Challenge X](#), a competition, led by the Department of Energy and General Motors, that gives engineering students the opportunity to participate in hands-on research and development with automotive propulsion, fuels, materials, and emissions-control technologies.

What:

- Paul Smith of The MathWorks will join representatives from the automotive industry to discuss new powertrain technologies and how they are changing drivetrain development.

CIMdata PLM Industry Summary

- Experts from The MathWorks will present papers about applying Model-Based Design to the automotive industry.
- Students will discuss and present papers on their use of Model-Based Design and MathWorks tools to reengineer a Chevy Equinox as part of the Challenge X student competition.
- The MathWorks will present a workshop on managing data to improve the design process by utilizing MathWorks tools.

Where/When: [SAE World Congress](#), Cobo Center, Detroit, MI, April 16-19, 2007

At this year's SAE World Congress The MathWorks, located in **Booth # 1611**, will showcase the use of Model-Based Design and demonstrate how it is being deployed by leading automotive manufacturers. Experts from The MathWorks will participate in the technical program and provide in-booth demonstrations on powertrain, body electronics, chassis, and safety system development, highlighting use of Model-Based Design for hybrid vehicles.

Student representatives from Challenge X will also be available to discuss their use of Model-Based Design to reengineer a Chevy Equinox, and the Equinox redesigned by Ohio State University, winners of the Challenge X MathWorks Modeling Award, will be featured in the booth. The MathWorks booth will also include the following partners: Freescale, Infineon Technologies, MotoTron, Pathway Technologies, and PolySpace.

Learn more about The MathWorks and Model-Based Design in the following technical sessions or by stopping by the booth.

Paul Smith, Senior Manager of North American Automotive Consulting at The MathWorks, will participate in the following panel discussion:

- **Wednesday, April 18, 9:30 a.m., FEV Powertrain Innovation Forum** - Paul Smith from The MathWorks will join panelists from PRTM, BorgWarner, Inc., and GM on a panel titled, **“How Are New Powertrain Technologies Changing Drivetrain Development.”** (*Session Code: CONG74*).

The MathWorks will be hosting the following workshop:

- **Tuesday, April 17, 4:30 p.m. – 7:30 p.m., Room W2-65**
The MathWorks will present a workshop titled **“Turn Your Data into Knowledge and Improve Your Engineering Designs and Processes,”** which focuses on utilizing The MathWorks tools to easily organize and analyze data to improve the research and design process.

Peter Maloney of The MathWorks will be chairing the following technical session:

- **Tuesday, April 17, 9:00 a.m., Room D2-08**
Electronic Engine Controls (Part 1 of 6) (*Session Code: PFL17*)
Presenters will discuss advanced control and on-board-diagnostic strategies and related topics including control-oriented system modeling, signal processing, sensors and actuators, and system integration and implementation.

MathWorks experts will present the following technical papers:

- **Monday, April 16, 9:30 a.m., Room O2-44**
Paul Smith, Sameer Prabhu, and Jonathan Friedman of The MathWorks will present a paper

entitled “**Best Practices for Establishing a Model-Based Design Culture**” as part of the Systems Engineering Session (Part 1 of 2). (*Session Code: AE19*).

- **Monday, April 16, 11:00 a.m., Room O2-44**
Chris Fillyaw, Jonathan Friedman, and Sameer Prabhu of The MathWorks will present a paper entitled “**Creating Human Machine Interface (HMI) Based Test within Model-Based Design**” as part of the Systems Engineering Session (Part 1 of 2). (*Session Code: AE19*).
- **Monday, April 16, 11:30 a.m., Room O2-44**
Robyn Jackey of The MathWorks will present a paper entitled “**A Simple, Effective Lead-Acid Battery Modeling Process for Electrical System Component Selection**” as part of the Systems Engineering Session (Part 1 of 2). (*Session Code: AE19*).
- **Monday, April 16, 4:45 p.m., Room O2-44**
Gavin Walker, Jonathan Friedman, and Rob Aberg of The MathWorks will present a paper entitled “**Configuration Management within Model-Based Design**” as part of the Systems Engineering Session (Part 2 of 2). (*Session Code: AE19*).
- **Wednesday, April 18, 10:00 a.m., Room W2-70**
Tom Erkinen and Mirko Conrad of The MathWorks will present a paper entitled “**Safety-Critical Software Development Using Automatic Production Code Generation**” as part of the Safety-Critical Systems Session (Part 1 of 3). (*Session Code: AE5*).
- Siva Nadarajah of The MathWorks authored a paper entitled “**Large Scale Modeling and Simulation of Powertrain Systems**” as part of the Software/Hardware Systems Session. This paper is *written only*.
- Paul Smith of The MathWorks, and Hongxing (Austin) Hu and Jie Chen of Panasonic Electronics co-authored a paper entitled “**Model-Based Design Study and Evaluation of New HMI Concepts for Vehicle Multimedia, Climate Control, and Navigation Systems**” as part of the Safety Test Methodology Session. This paper is *written only*.

Engineering students from leading universities will present the following technical papers, which focus on their use of new technologies and MathWorks tools to reengineer a 2005 Chevy Equinox for optimum utility, reduced energy consumption, and decreased emissions:

- **Wednesday, April 18, 9:00 a.m., Room D3-22/23**
Erik Wilhelm of University of Waterloo will present a paper co-authored with Mike Wahlstrom, Matt Stevens, Christopher Mendes, Christopher Lawrence, Daniel Sellan, Christopher Haliburton, Dr. Michael Fowler, and Dr. Roydon Fraser entitled “**Implementation and Optimization of a Fuel Cell Hybrid Powertrain**” as part of the Developing New Technology Through Student Design Competitions Session. (*Session Code: PFL13*).
- **Wednesday, April 18, 9:30 a.m., Room D3-22/23**
Marc Herniter, Zachariah Chambers, Caleb Harper, Jeffrey Parks, Matthew DeVries, Benjamin Clavola, Adam Williams, Edgar Vargas, and Gary Wieneke of Rose-Hulman Institute of Technology will present a paper entitled “**Hybrid-Electric Vehicle Controller Development – Levels of Simulation and Verification**” as part of the Developing New Technology Through Student Design Competitions Session. (*Session Code: PFL13*).
- **Wednesday, April 18, 10:00 a.m., Room D3-22/23**
Steven Boyd, Kurt Matthew Johnson, Dustin Hall Sheffield, Irene Berry, Erin Hissong, Brian

Goode, and Douglas Nelson of Virginia Tech will present a paper entitled “**Vehicle Design Analysis and Validation for the Equinox REVLSE E85 Hybrid Electric Vehicle**” as part of the Developing New Technology Through Student Design Competitions Session. (*Session Code: PFL13*).

- **Wednesday, April 18, 10:30 a.m., Room D3-22/23**

Christopher Whitt of Mississippi State University will present a paper entitled “**Redesign of a 2005 Chevy Equinox Rear Cradle for the Implementation of a Hybrid Electric Drive**” as part of the Developing New Technology Through Student Design Competitions Session. (*Session Code: PFL13*).

- **Wednesday, April 18, 11:00 a.m., Room D3-22/23**

Elizabeth Casson, Daniel Bocci, Ethan Brodsky, Daniel Mehr, Rebecca Gunn, and Glenn Bower of University of Wisconsin Madison will present a paper entitled “**Design and Testing of a Prototype Hybrid-Electric Split-Parallel Crossover Sports Utility Vehicle**” as part of the Developing New Technology Through Student Design Competitions Session. (*Session Code: PFL13*).

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Financial News

ANSYS To Release First Quarter Earnings May 3, 2007

12 April 2007

ANSYS, Inc. announced that the global innovator of simulation software and technologies designed to optimize product development processes expects to release its first quarter earnings on Thursday, May 3, 2007. The Company will hold a conference call conducted by James E. Cashman III, President and Chief Executive Officer, and Maria T. Shields, Chief Financial Officer, at 10:30 a.m. Eastern Time to discuss first quarter results and future outlook.

Conference Call Information:

What: ANSYS First Quarter Earnings Conference Call

When: 5/3/07 at 10:30 a.m. Eastern Time

Where: <http://www.ansys.com/corporate/investors.asp>

The conference call dial in number is 913-312-1264 or 888-...

passcode ANSYS

The call will be recorded with replay 719-457-0820 or 888-...

passcode ANSYS (26797)

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Cadence Announces First Quarter 2007 Financial Results Webcast

6 April 2007

WHO:

Cadence Design Systems, Inc. to announce first quarter 2007 financial results via webcast.

WHAT:

You are invited to attend the first quarter 2007 financial results audio webcast. Participating on the webcast will be Mike Fister, president and chief executive officer and Bill Porter, executive vice president and chief financial officer.

WHEN:

The webcast will begin Wednesday, Apr. 25, 2007 at 2 p.m. (Pacific)/5 p.m. (Eastern). An archive of the webcast will be available from Apr. 25 at 5 p.m. (Pacific) until 5 p.m. (Pacific) on May 2.

WHERE:

The webcast will be available online at: http://www.cadence.com/company/investor_relations.

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CollabNet® Continues Record Business and Customer Growth

11 April 2007

CollabNet announced a 122 percent year-over-year growth in new customers in the first quarter of 2007, making it the third consecutive quarter in which customer growth exceeded 70 percent or more. New additions to CollabNet's expanding global customer base include enterprise organizations such as Ball Aerospace & Technology Group, Mitac, Opsware, Siemens Medical Solutions, and Centrix KK.

Fueled by the industry's rapid adoption of its net-centric collaborative development model and Subversion™-based development platform CollabNet Enterprise Edition (CEE), CollabNet is the leading enabler of global distributed software development with more than 16,000 public and private projects, and the equivalent of over 7TB of software assets and intellectual property (IP) now under management through CollabNet's software as a service (SAAS) based platform.

CIMdata PLM Industry Summary

Seeking ways to accelerate product development cycles, increase output of developers, and reduce the cost of developer test and build infrastructure in the rapidly emerging paradigm of distributed software development, businesses are using CollabNet solutions for speed, agility, cost efficiency, and innovation. This is demonstrated by:

CollabNet's sponsorship of Subversion (<http://www.collab.net/subversion>), the version control system for software developers and one of the most successful open source projects. Celebrating its third birthday this year, Subversion adoption continues to increase by 265 percent year over year (<http://subversion.open.collab.net/subversion-adoption.html>).

CollabNet's December 2006 introduction of CollabNet CUBiT, the virtualization solution that is gaining traction as the first solution to centrally and dynamically provision and manage development, build, and test environments.

CollabNet's launch of openCollabNet (<http://www.open.collab.net/>) in November 2006, a rich online community with more than 100,000 visitors and over 5,000 registered users of Subversion and CollabNet as well as free downloads of its flagship products CollabNet Enterprise Edition along with certified versions of Subversion.

CollabNet's integration with Eclipse Mylar for task prioritization that creates a highly productive and easy to use Eclipse-based developer desktop.

“CollabNet has played a major role in helping global organizations like Reuters and Philips Medical Systems drive innovation by proliferating collaboration with geographically dispersed partners, customers and developers and eliminating development silos,” said Bill Portelli, CollabNet president and CEO. “We are offering two to ten times the cost advantage and a 20 to 50 percent productivity improvement, as compared to costly conventional development platforms that do not meet the fundamental needs of today's highly distributed net-centric software development organizations.”

CollabNet's product portfolio helps manage the end-to-end lifecycle of an application in a Web-based environment, without compromising enterprise requirements for high security, reliability and data privacy. It consists of CollabNet Enterprise Edition, CollabNet Subversion, CollabNet Community Edition and, released at the end of 2006, CollabNet Centralized & Unified Build, Integration, Test (CUBiT).

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Geomagic Starts 2007 with Record Quarter Company's Revenue Grows by 150 Percent Compared to Previous Year; Growth Strong; in All Business Sectors, Especially Dental CAD/CAM

11 April 2007

Geomagic reports record revenue for the quarter ending March 31, 2007, with 150 percent growth compared to the same period last year.

Revenue increased across all product lines and geographic regions, with especially strong performance in dental CAD/CAM.

“I think we are seeing a tipping point for digital shape sampling and processing (DSSP), an industry category that is disruptive in its impact on speed, product differentiation, and quality,” says Ping Fu, Geomagic’s president and CEO. “Our vision of mass customization is becoming a mainstream business model in product design for the 21st century.”

DSSP describes the ability to use scanning hardware and processing software to digitally capture physical objects and automatically create accurate 3D models with associated structural properties for design, engineering, inspection and custom manufacturing.

[Geomagic](#) is a pioneer and market leader in providing DSSP products, which according to Fu are transitioning from R&D labs to the front lines at leading automotive, aerospace and consumer product companies; at dental and hearing device companies; and within product inspection departments of industries ranging from turbine to electrical manufacturers.

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Gibbs and Associates Post Record Sales in March; Sales of GibbsCAM products and services break all previous sales records in company’s 23 year history

11 April 2007

Gibbs and Associates, developer of GibbsCAM®, software for programming CNC machine tools, announced that sales of GibbsCAM products and services for the month of March exceeded all previous monthly sales records in the company’s 23 year history. Revenue from new seat sales, upgrades and maintenance increased considerably, continuing the substantial ramp-up from the beginning of 2007. The sales increase represented growth in both domestic and international markets. March 2007’s performance surpassed the previous record set in March 2005.

“It’s always nice to see strong sales,” comments Bill Gibbs, president and founder of Gibbs and Associates, “but setting a new monthly sales record is particularly gratifying. Gibbs’ investment to support multi-tasking machine tools continues to pay off with growing GibbsCAM MTM sales. At the same time, sales of other GibbsCAM modules are also growing confirming GibbsCAM’s suitability to a wide range of manufacturing disciplines.”

Gibbs and Associates was recently recognized by CIMdata in v16 of their NC Software and Services Market Assessment Report as one of the forecasted top three most rapidly growing CAM companies in 2007 based on vendor revenues.

“Gibbs’ on-going strategic relationships,” states Mr. Gibbs, “with key machine tool manufacturers, such as Mazak, Mori Seiki, Matsuura, Fadal, and Doosan, continues to generate new business opportunities. Customers benefit from this close collaboration and are able to realize a return on their machine tool investments more quickly.”

March sales results were posted in advance of the upcoming GibbsCAM 2007 release, which is on schedule to be available this month. It is expected that similar to previous product releases, the release of GibbsCAM 2007 will also generate additional sales demand and corresponding revenue. The company also plans to release another major release of GibbsCAM before the end of 2007 further enhancing sales performance.

For more information about GibbsCAM, or to locate your local GibbsCAM Reseller, go to <http://www.gibbscam.com/>, call 1-800-654-9399, or email info@GibbsCAM.com.

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Open Text to Report Third Quarter Financial Results on Wednesday, May 2, 2007

10 April 2007

Open Text™ Corporation announced that financial results for its third quarter of fiscal 2007 will be released on Wednesday, May 2, 2007 at approximately 4:00 p.m. ET.

Teleconference Call

Open Text will host a conference call on May 2, 2007 at 5:00 p.m. ET to discuss the final financial results of its third quarter.

Date: Wednesday, May 2, 2007

Time: 5:00 p.m. ET/2:00 p.m. PT

Length: 60 minutes

Where: 416-640-1907

Please dial-in approximately 10 minutes before the teleconference is scheduled to begin. A replay of the call will be available beginning May 2, 2007 at 7:00 p.m. ET through 11:59 p.m. on May 16, 2007 and can be accessed by dialing 416-640-1917 and using pass code 21225309 followed by the number sign.

For more information or to listen to the call via Web cast, please use the following link:

http://www.opentext.com/investor/investor_events/index.html.

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PTC® to Host Second Quarter 2007 Results Conference Call and Webcast on April 25, 2007

9 April 2007

PTC expects to release second quarter fiscal 2007 results before the market opens on Wednesday, April 25, 2007. Following the issuance of the press release, the Company will host a conference call and simultaneous webcast to discuss the results with investors. The earnings press release and accompanying financial and operating statistics will be accessible prior to the conference call and webcast on the Company's web site.

Who: Dick Harrison, president and chief executive officer Neil Moses, executive vice president and chief financial officer

When: April 25, 2007, 10:00 a.m. (ET)

Dial-In: 888-566-8560 (U.S.); +1-517-623-4768 (International). Please use passcode PTC.

Webcast: To access the live webcast of the conference call, please visit <http://www.ptc.com/for/investors.htm>.

Replay: A replay of the call will be available until 5:00 p.m. (ET) on April 30, 2007. To access the replay by phone, dial 402-220-9746. To access the replay via webcast, please visit <http://www.ptc.com/for/investors.htm>.

Quarterly conference calls will be archived for public replay for a period of three (3) business days from the date of the live call. Please note that statements on the call are as of the date of the call and PTC does not assume any obligation to update any statements made on the call or the archived call. In addition, matters discussed may include forward-looking statements about PTC's anticipated financial results and growth, as well as about the development of products and markets, which are based on current plans and assumptions. Actual results in future periods may differ materially from current expectations due to a number of risks and uncertainties, including those described from time to time in reports filed by PTC with the U.S. Securities and Exchange Commission, including PTC's most recent reports on Forms 10-K and 10-Q.

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Right Hemisphere Receives Equity Investment from SAP Ventures

12 April 2007

Right Hemisphere® announced it has received an equity investment from SAP Ventures, the venture capital arm of SAP AG. Munich Venture Partners also participated in the investment. Right Hemisphere's software integrates with and extends all major product data management (PDM) and product lifecycle management (PLM) systems to enable the re-use of accurate, up-to-date product information across the extended enterprise. Today the company's solutions provide some of the industry's most respected manufacturers, such as DaimlerChrysler, Bell Helicopter, Sikorsky and others, with an open environment for enterprise-wide product communication and collaboration that connects with other enterprise systems, eliminates various inefficiencies, and helps manufacturers get their products and support materials to market faster.

"We believe Right Hemisphere has identified the next frontier for sweeping enterprise-wide process improvements. With an open, automated approach to sharing and publishing 3D product information, Right Hemisphere is adding great value by eliminating the time-consuming downstream process inefficiencies that traditional PLM solutions have failed to address," said Nino Marakovic, a partner at SAP Ventures. "The company's solutions, standards-based approach, and ROI have resonated very, very well with Fortune 1000 manufacturers of complex products. We anticipate an enormous market opportunity for Right Hemisphere with this new emerging class of enterprise software."

"Having the support of SAP is yet another huge validation of our technology and of the growing importance of this new strategic space we call 'visual product communication and collaboration,'" said Right Hemisphere CEO Michael Lynch. "With SAP Ventures joining the ranks of our other investors - Sequoia Capital, Sutter Hill Ventures, and NVIDIA - and our strategic partners - Adobe Systems and Microsoft Corporation - there's no denying that we have struck a powerful nerve in this industry."

Last month Right Hemisphere announced the Right Hemisphere 5 platform, an integrated suite of visual product communication and collaboration solutions. With support for over 130 2D and 3D formats, Right Hemisphere's next-generation software maximizes knowledge transfer efficiency of product information to downstream stakeholders - including sourcing, sales and marketing, manufacturing, training, and service and support functions - by automatically publishing product information readily available in CAD, PLM, and ERP systems into corporate document standards such as Adobe® PDF® and Microsoft® Office.

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Implementation Investments

Breakthrough Electric Car Maker Turns to Solidworks to Refine Unique High-Performance, Traffic-Reducing Design

9 April 2007

The Tango is an all-electric two-seater that sprints from zero to 60 in four seconds.

CIMdata PLM Industry Summary

Now being redesigned and refined in [SolidWorks](#)® 3D CAD software, the Tango travels two abreast with ease, safely switches lanes through impossible gaps, glides through gridlocked traffic, and, at 39 inches wide, can park four to a space. George Clooney bought the first one – and drives it regularly when staying at his Southern California residence.

Commuter Cars of Spokane, Wash., outsourced the initial Tango design to an engineering firm that used a hodgepodge of CAD software and handed over a set of files that, while well-engineered, were a disorganized mess, according to President Rick Woodbury, who dreamed up the car concept while parked in an LA traffic jam.

“A sheet metal contractor told us to get SolidWorks software and straighten out our files, and we did,” Woodbury said. “We’re now in complete control of the car from the ground up, and we’re using SolidWorks to refine the design every day.”

Woodbury and his mechanical engineer used SolidWorks to converge scattered part files in smoothly operating assemblies and to optimize Tango systems like the high-performance suspension, NASCAR-grade roll cage, and stabilizing ballast. Though tiny, the car boasts many impressive safety features, according to Woodbury, including four times more protective steel in its doors than in those of the biggest SUVs.

Commuter Cars mechanical engineer David Mounce says SolidWorks’ 2D functions let him complete drawings nearly 10 times faster than he could by using another software, and he is learning new 3D capabilities every day mostly just by happening upon SolidWorks features. “Moving from 2D to SolidWorks 3D CAD puts you in a world that somehow prompts you to tinker, or refine, more frequently to produce a better product,” he said. “Rather than designing something in black, white, and numbers, you can spin it around, check it out, and change a little here and there to hopefully improve it.”

Commuter Cars has purchased SolidWorks COSMOSWorks® design analysis software to help the company further develop and test its designs and ensure they are sleek, efficient, and strong.

“The Tango is more than just an alternative-fuel vehicle,” said Rainer Gawlick, SolidWorks vice president of worldwide marketing. “This is a potential sea change in the way we live our lives, at a time when every environmental resource is precious. It’s a better product for, one hopes, a better world.”

[Commuter Cars](#) manufactures Tangos to order for \$108,000 to \$148,000 depending on battery options and plans to ramp up volume-production as soon as the required funding is available. The company works with authorized SolidWorks reseller [Quest Integration](#) for ongoing software training, implementation, and support.

- Tango Range: 50 to 200 miles depending on battery selection; Lead-acid, NiMH or Li-Ion
- Cost per mile: about one-sixth of gasoline-powered auto travel (retail price of electricity vs. gasoline)

- Waste due to traffic congestion in the urban areas of the United States: 3.6 billion hours of travel delay and 5.7 billion gallons of wasted fuel each year (2002 figures from Texas Transportation Institute).

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ClearSpeed Adopts Cadence Incisive Enterprise Manager to Verify High-Performance, Low-Power Coprocessors

9 April 2007

[Cadence Design Systems, Inc.](#) that ClearSpeed Technology, a leader in acceleration technology for high-performance computing (HPC), has adopted the Cadence® Incisive® Plan-to-Closure Methodology featuring Incisive Enterprise Manager. By following the Plan-to-Closure Methodology, ClearSpeed achieved higher levels of quality and predictability in its compute-intensive applications featuring PCI Express-based designs.

ClearSpeed develops massively parallel coprocessors and accelerator boards delivering unmatched performance per watt for HPC applications on industry-standard systems. To reach these goals, the company is committed to using a methodology that automates key verification tasks essential to address ClearSpeed's growing verification challenges.

Cadence's Compliance Management System (CMS), included as part of the Incisive Verification IP portfolio, was the perfect fit for such a complex verification task. ClearSpeed used CMS with their new PCI Express-based product line, taking advantage of the executable verification plan (vPlan) and the full PCI Express compliance test suite. The Plan-to-Closure based methodology increased compliance coverage, found bugs much more rapidly, and allowed for project management based on metrics, which greatly reduced the risk of respins.

"Incisive Enterprise Manager works well with the PCI Express Compliance Management System to provide better reporting and tracking of project status," said Mike Bartley, test and verification manager at ClearSpeed. "Each of our team leaders can now confidently report on verification status in all the functional areas of coverage, bug rates and test failures."

With Incisive Enterprise Manager, ClearSpeed has realized major improvements in its ability to track project progress and better assign resources. Reporting, coverage tracking, bug tracking, and test failures are all managed and reported to management, allowing for a much better work flow, better communication, and much less project risk.

"ClearSpeed is at the forefront of a new era of HPC architectures based on coprocessors that push the limits of performance while delivering dramatic reductions in power consumption," said Steve Glaser, corporate vice president, Marketing, Verification Division at Cadence. "Our Incisive Enterprise Manager solution will offer them much higher levels of visibility into their projects so they can maintain their industry-leading position when it comes to performance per watt."

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Farnham & Pfile Gains Powerful Tool for Attracting Business with Dassault Systèmes Solution

11 April 2007

[Farnham & Pfile Construction Inc.](#) has completed an expansion of its Dassault Systèmes ENOVIA VPLM enterprise collaboration implementation that gives the industrial engineering company strategic-level solutions for pursuing a wider range of projects, [Dassault Systèmes](#) announced. The company's expanded implementation includes broad use of ENOVIA VPLM's project planning, outage planning and decision support capabilities, in addition to their previous use of CATIA and ENOVIA's digital mock-up (i.e. DMU) functionality.

Farnham & Pfile designs and builds large industrial systems ranging from power production facilities to complete material handling systems. ENOVIA VPLM is a component of Farnham & Pfile's Dassault Systèmes product lifecycle management (PLM) solution. The company uses the PLM solution to manage every detail of complex projects, from conception, to bidding, engineering, production and post-production maintenance. The Windows-based collaborative environment enables everyone in the project planning process to exchange data without resorting to conversion files that often alter or eliminate important parameters. The ability to model a facility's design, simulate its operation, and communicate changes at every phase of the development process gives Farnham & Pfile a powerful tool for attracting business.

“Initially we were using ENOVIA VPLM for digital mockups of facility designs, but we knew we wanted a fuller PLM implementation to help us bid on a broader variety of projects,” said Tom Porterfield, Farnham & Pfile's vice president of operations. “Our current ENOVIA VPLM implementation lets us show clients data models of their facilities at different stages of completion to show them progress and make modifications. We make the modifications in our PLM system, and it communicates changes to all the affected stakeholders. That control enables us to complete projects on schedule and at budget, regardless of their complexity.”

Farnham & Pfile's expanded ENOVIA VPLM implementation continues the company's history of adopting new technology to stay ahead of its competition. Farnham & Pfile was an early adopter of Dassault Systèmes' CADAM design authoring application in 1990, then migrated to CATIA V4 and CATIA V5 as soon as they were released.

“Farnham & Pfile was one of the first companies in its industry to recognize the advantage of designing large, complicated facilities in 3D. By moving to CATIA V5 and implementing ENOVIA VPLM, it's extending that advantage by bringing every stakeholder in the design process into a single collaborative environment,” said Al Casas, Dassault Systèmes' enterprise customer representative for the process, power and petroleum industries. “Farnham & Pfile plans to leverage the combined CATIA and ENOVIA VPLM solution to enable broader, more productive collaboration with partners, customers and suppliers leveraging a single, virtual product definition across the product lifecycle.”

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Freescale Selects Agile 9.2 for Global Deployment to Over 7000 Users Across Their Product Network

9 April 2007

[Agile Software Corporation](#) announced that Freescale Semiconductor, Inc., a global leader in the design and manufacture of embedded semiconductors, has selected Agile 9.2 to help increase global collaboration and visibility across their product network.

“We needed a solution that would enable us to increase our collaboration and visibility with our 7,000 users across our global offices in a fast and efficient way without decreasing quality,” said Sam Coursen, vice president and Chief Information Officer, Freescale Semiconductor. “Agile was selected after several months of intensive evaluation of Agile and other PLM suppliers. In the end, Agile’s solutions had most of what we needed in an out-of-the-box configurable application.”

Freescale is based in Austin, Texas, and has design, research and development, manufacturing, and sales operations in more than 30 countries. It is one of the world’s largest semiconductor companies, with annual sales of \$6.4 billion (USD).

The Agile 9.2 solutions that Freescale selected are Agile Product Collaboration and Agile Engineering Collaboration. Agile Product Collaboration supports a distributed manufacturing capability that integrates directly into leading management systems, such as SAP systems, and enables visibility and management of site-specific product information across global operations and extended supply networks. Agile Engineering Collaboration includes integrations to leading MCAD, ECAD, software, firmware, and desktop publishing applications; it also provides comprehensive design collaboration and visualization support.

“With manufacturing and sales offices in over 30 offices around the world, Freescale needed a global PLM solution that increased collaboration and visibility,” says Jay Fulcher, Agile president and CEO. “With our broad suite of best in class PLM solutions, market leaders like Freescale are able to do so in addition to driving innovation and improving cost efficiencies throughout the product lifecycle to remain ahead of the competition.”

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Hatch™ Implements Open Text Livelink ECM Solution For Global Document Management and Control Standards

10 April 2007

Open Text™ Corporation announced that Canadian global engineering firm [Hatch™](#) is implementing a document management and control system using a Livelink ECM solution from Open Text. The Web-

based system creates a virtual collaborative environment in which Hatch's employees can share documentation and knowledge on projects with contractors and clients from anywhere in the world. The ECM solution provides the company with a competitive advantage in the engineering business by enabling it to deliver more cost effective and controlled risk solutions to its clients.

Hatch supplies process and business consulting, information technology, engineering, and project and construction management to the mining, metallurgical, manufacturing, energy and infrastructure industries. The global organization, which celebrated its 50th anniversary in 2005, has a network of 7,000 employees in 80 offices on six continents. Open Text's ECM solution has improved work sharing, and provides timely and comprehensive analysis and reporting to Hatch's project teams and clients to streamline operations and procedures.

"One of the most important assets we have to offer to our clients is our wealth of knowledge from past projects. Some of this knowledge is stored in written documentation, such as drawings, reports, specifications and catalogue data, either in digital form or on paper. More information is stored in databases, where it can wither away unless the database lives beyond the project and, more importantly, beyond the immediate user or creator," said Glenn Sakaki, Managing Director, Execution Technology at Hatch. "To fully utilize this resource it needs to be easily accessible and retrievable by the appropriate people on our global project teams. The critical factor in our decision to choose Open Text was the effective combination of its collaboration and document management solution and the system's ability to integrate to our SAP application."

The Livelink ECM solution, which Hatch has branded "workSHARE," helps the company manage its engineering, procurement and construction management (EPCM) projects by delivering a single, secure system that enables the control and management of critical documentation between Hatch clients, vendors, and joint-venture partners. Collaborative teams in different global locations have immediate online access to project documents. Designs can be worked on around the clock to speed up the design effort using information exchanged and synchronized in workSHARE.

"Manual and paper intensive methods no longer scale to support the business productivity demands and handling of large volumes of documents and communications," said Sakaki. "The workSHARE solution is a key business enabler for Hatch." The Livelink ECM solution allows teams to collaborate on documents, while retaining a full history of the edits by each person. An integrated Livelink ECM module for transmittal management ensures that Hatch can manage its controlled documentation within the Livelink ECM interface while also providing for audit trails of what has been issued to a recipient in support of the document control reports. This helps ensure document control, reduces risks, and eliminates project rework, delays and added costs.

Hatch's workSHARE solution enables the ongoing handover of project and engineering documents in real time, versus post-project completion handover in the past.

The [Open Text](#) document management system has also helped Hatch address legal requirements and government regulations, including the quality standard requirements of ISO 9001. Hatch was the first major engineering firm in North America to have its management systems certified on ISO 9001-94

standards. The Livelink ECM solution also ensures compliance with internal business policies related to safety, permits, warranties, contracts, and client and internal audits.

Accessing project information is made easier with Open Text's Web-based solution, according to Sakaki. "The ability to have a single repository of working and published documents, such that all intellectual property for a project is captured within the project environment, gives people easy access to accurate, secure information. In addition, we can reduce the size of email messages by sending links to documents stored in workSHARE as opposed to emailing the attachments. It is a complete electronic system for the entire document control process."

"Organizations today recognize that in order to support successful business processes they need to take a holistic view that combines people, well defined practices, and efficient technology," said John Wilkerson, Executive Vice President of Global Sales, Services and Support at Open Text. "Hatch's business and technology teams, in conjunction with Open Text, have developed a market proven, Web-based engineering document control and management system that is deployed around the world. It provides the firm with a unified, real-time solution to help track, manage, report and collaborate on documents, improving productivity with bottom line results."

For more information about Hatch's Livelink ECM deployment, read the Open Text customer success story at: [Hatch Case Study](#).

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HeartWare Optimizes Collaboration and Quality Management Across the Product Network With Agile OnDemand

10 April 2007

[Agile Software Corporation](#) announced that HeartWare Inc. implemented Agile Advantage 2006, a leading PLM solution suite for small and medium enterprises (SMEs), to streamline and provide visibility into its pre-revenue medical device business processes. As a mid-sized medical device manufacturer, developing a family of Left Ventricular Assist Devices (LVADs) for the treatment of advanced heart failure, HeartWare selected Agile Software for its flexible licensing options, deep domain expertise, out-of-the-box configurable solutions and extensive customer references. Like any medical device manufacturer, HeartWare's success depends on its ability to rapidly innovate its product offerings, while at the same time supporting rigorous compliance directives for electronic documentation as mandated by the FDA and other regulatory bodies.

"We deployed Agile Advantage because we didn't want to lose the flexibility and agility of a start-up company, but needed a world-class solution that would allow us to seamlessly communicate and exchange information, based on a robust security model, with our skilled partners in manufacturing, regulatory, research and clinical advisory capacities located across the globe," said Jeff LaRose, Chief Science Officer, HeartWare. "Agile Advantage frees us of the inherent burden of an inefficient documentation control process, manual quality management processes, disjointed historical knowledge and unnecessarily complex supply chain communications. Now we have a system in place that supports

our plan for success and ability to effectively manage growth as we move from clinical trials to commercialization of our ventricular assist technologies world wide."

With its parent company in Sydney, Australia, HeartWare has facilities in the United States, with clinical trials being conducted throughout Europe and Australia. As a growing, pre-revenue enterprise, HeartWare's developed trade secrets, technology and design history are among the company's key assets. Prior to implementing Agile Advantage, access to valuable product information was limited across the enterprise and housed in a consortium of hard drives scattered on various computers throughout the organization. In addition, manual documentation control systems required time-consuming tracking and revision control and provided limited security.

HeartWare implemented Agile OnDemand, Agile's Software as a Service (SaaS) version of Agile Advantage, to securely collaborate with key stakeholders throughout the company's product network. With the Agile OnDemand licensing model, HeartWare has the flexibility to migrate, as their business needs dictate, from a SaaS model to an in-house solution without reconfiguration headaches and expense. Agile PLM provides HeartWare with a single application to view the product record, quality system compliance and knowledge archives across its global enterprise. Recognizing the different needs of SMEs to compete in a global economy, Agile Advantage 2006 delivers benefits crucial to small and medium size customers: ease of management, ease of implementation, quick time to benefit, low total cost of ownership, and flexible licensing options that take into account limited IT resources.

"Small to medium companies in the medical device industry are doubly challenged to meet stringent regulations as they compete with larger, global organizations," said Craig Livingston, vice president and general manager, SME solutions, Agile. "To level the playing field, SMEs like HeartWare are increasingly turning to Agile Advantage as a flexible, user-friendly solution which reduces operating and direct materials costs, the cost and risk of compliance issues, and time-to-market, allowing medical device manufacturers to focus on product innovation."

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Hydro Tasmania Consulting Wins BE Award; Photorealistic 3D Model Helped City Planners and the Public Assess Development Concepts for Economically and Culturally Important Waterfront Area

12 April 2007

[Hydro Tasmania Consulting](#) has won a BE Award for its accurate, photorealistic 3D model of Hobart's scenic and historic waterfront in the Australian state of Tasmania. The firm's model enabled city planners and the public to visualize various development concepts for 15 potential waterfront sites.

"3D computer visualization provides councils and planning authorities with an accurate means of visually assessing proposed developments in the city environment," explained Hayden Foley, geospatial administrator for Hydro Tasmania Consulting. "Justifications and explanations of such decisions to the general public are easier to make when the city's future developments are shown from various viewpoints as computer simulated 3D models." In the case of Hobart, the 3D visualization helped the

entire community evaluate how development concepts would impact the appearance, activity, mobility, and infrastructure requirements of a critically important area of the city.

In the past, development proposals often had been rejected because the city failed to produce a clear vision for the waterfront's future. Seizing the opportunity to create a world-class urban waterfront, the Hobart City Council, Hobart Ports Corporation, and the Tasmanian state government set up the Hobart Waterfront Project to develop an Urban Design Framework (UDF) for assessing development proposals.

The state contracted with Hydro Tasmania Consulting to build an accurate, photorealistic 3D model incorporating the draft UDF building envelopes for the 15 sites earmarked for possible development. The model allowed planners to generate images that illustrate how the landscape would change and what the visual impact would be if developers built in accordance with the UDF guidelines. The model also made clear the potential consequences of development concepts that did not conform with the UDF.

Hydro Tasmania captured spatial data using detailed photogrammetric surveys, orthorectified aerial photography, building façade photography, architectural plans, field surveys, and state mapping data. Bentley software enabled the designers to collate and compile these diverse inputs into a spatially referenced and accurate 3D model.

As Foley explained, "Bentley provided user-friendly and intuitive software for this project that fully supported the three-step process to building urban 3D models. MicroStation has proven it is the best tool for the job, as it achieved high levels of realism while maintaining the spatial integrity of the underlying data."

The project's three-step modeling process included data acquisition, data processing, and specialized output. Bentley's fully integrated and interoperable software provided seamless data transfer among the surveyors, photogrammetrists, and CAD professionals. Spatial data captured from disparate sources flowed directly into the common DGN format, enabling post-processing in the CAD environment.

As part of the community consultation process, the 3D model was displayed in a public square in a large-screen, broadcast-quality format as a continuous loop video incorporating animation, time-lapse imaging, and panoramic views of the waterfront. In addition, a stand-alone touchscreen kiosk in the city council offices incorporated a user-friendly Web browser for exploring the visuals via a locality map with hyperlinks.

The 3D model and draft UDF were exhibited for three months. Community feedback made it clear that the citizens of Hobart wanted a visionary plan that would set guidelines for design excellence. Several months later, the Tasmanian government released the final Hobart Waterfront Urban Design Framework, providing the fundamental concepts and principles to guide development.

The photorealistic 3D model continues to serve as a reminder of the people's vision for Hobart Waterfront's future. The visualization tool currently is used to address urban design and planning issues related to streetscapes, landscapes, sightlines, and privacy, as well as for emergency planning and response tasks.

For more information on Hydro Tasmania Consulting's winning project and all of the other BE Award projects, visit <http://www.be.org/awards>. For more information on the Bentley products used in this project, visit <http://www.bentley.com/geospatial>.

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ITI Best Practices for New Product Development Helps Hitachi Medical Capture Prestigious Innovation Award

9 April 2007

Hitachi Medical Corporation (HMC) has received from its parent organization, Hitachi Ltd., the 2006 Innovation Award recognizing the most innovative product and process developed for the year. Hitachi Medical received the award for the multi-modality console product line that will enable the company to deploy common capabilities across all medical imaging product lines. Each year Tokyo based Hitachi Ltd. recognizes great achievements in technologies and products.

Rendell Hughes, [ITI](#) Sr. Executive Consultant explains: "Driven by ITI's CPPD® process the joint Hitachi Medical and ITI team deployed a systematic methodology to capture customer requirements that drive market growth, develop product targets, analyze and design software, deploy upfront integration and testing and validate the product with customers before the product is finished. Over a thirty six month period, ITI's team lead HMC in the transition from a C, Unix, single developer based environment to a C++, C# and .Net based development environment that supports a global concurrent development with outsourcing suppliers. HMC achieved a remarkable reduction down to almost 60% in time to market with significantly high level of quality as a result."

Almost 60 imaging centers in North American and 140 hospitals in Japan were involved in defining product capabilities that are critical for Radiologist and Technicians to support diagnosis with high image quality and fast patient throughput. Future customers evaluated the product and engineers were making final improvements 12 months before FDA approval. Testing started on the same day that coding started to ensure that this large complex system would meet quality and performance targets when the last line of code was implemented. This process ensures that our clients have a design and an implementation that always satisfies the customers and end users.

The console in conjunction with 1.5T closed MRI system received FDA approval in November 2005 and was shipped in July 2006, as a first product.

About Hitachi Medical Corporation

Hitachi Medical Corporation is a subsidiary of Hitachi Ltd -- a global \$80 Billion corporation with over 300,000 employees in a group. Hitachi Medical Corporation is headquartered in Tokyo, Japan, and a leading supplier of medical imaging equipment, including, without limitation, MRI systems, CT scanner systems, Ultrasound diagnostic systems, and X-ray systems.

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Leading Supplier of Air-Driven Fastening Tools Manages Data with CoCreate's Software

11 April 2007

[CoCreate Software GmbH](#) announced that Fasco S.p.A. chose CoCreate's data management software, CoCreate OneSpace Model Manager, over a competitive solution.

The Italian company, a leading designer and manufacturer of air-driven fastening tools, already uses CoCreate's 2D CAD tool, CoCreate OneSpace Drafting.

"We mainly use OneSpace Drafting for our design work because it's fast and easy to use," says Luca Graziani, IT Manager at Fasco S.p.A.

Fasco manages its vast amount of data using OneSpace Model Manager. Although the company evaluated other data management solutions, OneSpace Model Manager proved the perfect complement to OneSpace Drafting.

"We want to improve design productivity and quality by managing our design and project data efficiently," says Graziani.

With OneSpace Model Manager, the company can load and store 2D drawings, use revision and state control, find all the different places a design is used in the company, and search the company's considerable database to find designs in seconds.

All new CAD data Fasco creates in projects will now be managed with OneSpace Model Manager. Design, production and other related departments will draw from one central data vault at the main development site in Italy.

"With all of us working on the same data, we can see how we'll save time and costs," says Graziani. "Not to mention the savings that come from re-using designs, since everything is now so accessible in the OneSpace Model Manager database.

Fasco works with CoCreate reseller Next Technologies. "The time saved searching for documents alone made our investment worthwhile," says Graziani. "I'd estimate that productivity leapt by more than 50% compared to our old manual processes for finding designs."

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MKS Integrity and SAP: Linking Software and Production Processes at Continental Automotive Systems

12 April 2007

[MKS Inc.](#) and its partner ILC PROSTEP announced that they have provided Continental Automotive Systems with an integration between MKS's application lifecycle management platform, MKS Integrity and mySAP PLM (Product Lifecycle Management). This integration enables a vital process link

connecting software engineering to production planning and control, allowing project managers to automate and monitor the flow of process from development to production.

MKS and [ILC PROSTEP](#) have integrated Continental Automotive Systems's software engineering workflows, housed in MKS Integrity -- the company's corporate standard for application lifecycle management -- with production planning and control processes housed in mySAP PLM.

On demand, mySAP PLM generates development requests and transfers them to MKS Integrity which releases the completed module for testing or production. Process automation has removed the need for manual deployment of software releases, and enabled complete visibility into projects for Continental team leaders, allowing the organization to plan more effectively and utilize resources more efficiently.

The MKS-SAP-integration was developed using SAP NetWeaver and has been certified under the 'POWERED BY NetWeaver Program.'

"ILC PROSTEP brought to this integration effort a depth of experience with software engineering processes in embedded systems and the automotive sector coupled with SAP integration competence. Together we were able to provide a solution that would address the complexity of Continental Automotive Systems," says Holger Schmiedefeldt, Director Business Development, MKS GmbH

"By linking MKS Integrity with mySAP PLM we have an integrated automated process now from the software development to the production planning and controlling. We gain time savings, security and transparency," says Dr. Thomas Knapp, Manager Software Tools und Verification Competence Center Control Systems Software, Continental Automotive Systems. "This integration allows us to save significant time in the approval and release process, and our next step will be to share the planning data in mySAP PLM with MKS Integrity, and extend the integration to link MKS Integrity's requirements management capabilities with mySAP PLM."

With systems, components, and engineering services for intelligent automotive safety, comfort, chassis, powertrain performance as well as embedded telematics and hands-free communication systems, Continental Automotive Systems has secured itself a top position as a reliable partner of all major car manufacturers worldwide. Automotive Systems is a division of the Continental Corporation, a leading automotive supplier of brake systems, chassis components, powertrain controls, vehicle electronics, tires, as well as technical elastomers. In 2006 the corporation realized sales of approximately Euros 14.9 billion. At present it has a worldwide workforce of around 85,000.

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Ogihara Implements Aras Microsoft-Based Enterprise Open Source Solutions for Quality Compliance

10 April 2007

Aras® Corporation announced that Ogihara America Corporation has selected the Aras Innovator® open source solution suite for enterprise quality management and Advance Product Quality Planning [APQP] compliance. Ogihara is a leading automotive supplier of vehicle body parts including door, fender, hood, and roof panels to DaimlerChrysler, Ford, GM, Mitsubishi, and Nissan.

"We consider our quality compliance processes strategic and an essential part of our ability to deliver superior value to customers," said Dennis Henning, IT Manager for Ogihara. "The Aras Microsoft

enterprise open source solutions give us the control and flexibility we demand and the confidence we require for our enterprise-wide deployment.”

Ogihara needed better visibility and coordination of quality compliance processes to ensure that stringent quality levels are achieved. Aras Innovator will manage corrective & preventive action [CAPA] issue resolution for closed-loop accountability and provide defect tracking and nonconforming material management. Phase-gate new product project management based on the APQP requirements will include deliverable roll-ups for dashboard visibility and risk management based on Failure Mode & Effects Analysis [FMEA] and Control Plans.

Ogihara is developing an Aras Innovator adapter to the Progress Software Sonic ESB [Enterprise Services Bus] for integration to the QAD MFG/PRO ERP system which will be posted as a community contributed open source adapter for free download.

PODCAST: Listen to Ogihara outline business goals and discuss the project [7 mins]

http://aras.com/Exchange/blogs/aras_user_blog/archive/2007/03/05/ogihara-addresses-quality-management-apqp-compliance.aspx



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UGS PLM Technology Has Sponsored Race Teams off to a Fast Start

12 April 2007

[UGS Corp.](#) announced UGS-sponsored racing teams – whose cars are developed with the help of UGS® PLM technology – are off to another great start after winning both the NASCAR® NEXTEL Cup Series and NHRA Pro Stock Championships in 2006. NASCAR NEXTEL Cup Series teams – Hendricks Motorsports and Roush Fenway Racing – have won 5 of the first 6 points races and NHRA Pro Stock team KB Racing won 3 of the first 4 races.

Roush Fenway Racing driver Matt Kenseth won the Auto Club 500 at California Speedway; Hendrick Motorsports driver Kyle Busch won the Food City 500 at Bristol Motor Speedway; and Hendrick Motorsports driver Jimmie Johnson won the UAW-DaimlerChrysler 400 at Las Vegas Motor Speedway, Kobalt Tools 500 at Atlanta Motor Speedway and most recently the Goody's Cool Orange 500 at Martinsville Speedway on April 1, with teammate Jeff Gordon finishing second.

NHRA Pro Stock team KB Racing driver Jason Line won the O'REILLY NHRA Spring Nationals and teammate Greg Anderson won the CARQUEST AUTO PARTS Winternationals and the ACDelco NHRA Gatornationals, where Anderson and Line also became the first Pro Stock drivers to break the 210 mph speed barrier with 211.49 mph and 211.69 efforts respectively.

“UGS congratulates the racing teams on their success thus far this season, we are excited that our PLM technology is helping the race teams get ahead of the competition,” said Dave Shirk, executive vice president of Global Marketing for UGS. “The fact that UGS sponsored race teams are off to a great start

is proof that UGS' PLM technology is the best on the race track. UGS is helping our race teams win the same way we help our customers win, by providing the best PLM technology in the market."

A Tradition of Technology and Tracks

UGS has a long tradition providing NX® software and Teamcenter® software through racing sponsorships. Hendrick Motorsports, winner of the 2006 NASCAR NEXTEL Cup Championship; Joe Gibbs Racing, winner of the 2005 NASCAR NEXTEL Cup Championship; Roush Fenway Racing, winner of the 2003 and 2004 NASCAR NEXTEL Cup Championship; and Andretti Green Racing, winner of the 2004 and 2005 Indy Racing League® (IRL) IndyCar® Series Championship; have been using UGS software for several years to help develop their cars and improve their performance on the race track. KB Racing, winner of the National Hot Rod Association (NHRA) Pro Stock Championship for four straight years, began using UGS technology in 2005, and the Renault F1 Team, winner of the 2005 Formula One Drivers and Constructors Championships, established a partnership in 2004 using Tecnomatix™ software.

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Industry Wide News

EDA Consortium Reports 15 Percent Industry Revenue Growth for 2006

9 April 2007

The EDA Consortium's Market Statistics Service (MSS) announced that the electronic design automation (EDA) industry revenue for Q4 of 2006 was \$1,493 million, a 19 percent increase over Q4 2005. For the full year 2006, revenue totaled a record \$5,274 million, which was 15 percent more than the \$4,575 million recorded in 2005. This increase reflects both the continuing growth of the industry as a whole and the growth of the MSS program, which enjoyed a net increase in the number of participating companies compared to the previous year.

"Steady growth in consumer electronics and migration to deeper sub-micron processes are fueling the demand for solutions across all segments and regions of the EDA industry," said Aart de Geus, chairman of the EDA Consortium and chairman and CEO of Synopsys, Inc. "This is reflected in the revenue gains for 2006."

Total EDA and SIP (semiconductor intellectual property) Product and Maintenance revenue (excluding services) increased 20 percent over Q4 2005 and posted a record high quarter of \$1,416 million revenue in Q4 2006.

Companies tracked in the MSS employed 25,390 professionals in Q4 2006, 10 percent more than Q4 2005.

"Worldwide revenue is double digit, fueled by nearly all regions. North American EDA revenue is especially strong, fueled both by longstanding EDA categories, and particularly by SIP." said Robert Gardner, executive director, EDA Consortium. "We are optimistic that these growth trends will continue."

Revenue by Product Category

EDA's largest tool category, Computer-Aided Engineering (CAE), generated revenue of \$634 million in Q4 2006, 17 percent more than the same period in 2005. CAE revenue was at, \$2,190 million for all of 2006, up 14 percent compared to 2005.

IC Physical Design & Verification increased 11 percent to \$385 million in Q4 2006 over the same quarter in 2005. For the full year 2006, IC Physical Design & Verification revenue totaled \$1,396 million, a 16 percent increase over 2005.

The EDA industry's SIP revenue totaled \$274 million in Q4 2006, 31 percent greater than Q4 2005. For 2006, SIP revenue increased by 21 percent to \$ 989 million versus \$817 million in 2005. To more completely represent SIP, the market statistics service was expanded beginning in 2005 to include SIP revenue data from publicly available sources. Past quarters were updated in the report so that annual and quarterly comparisons include the publicly available data.

Revenue for Printed Circuit Board (PCB) and Multi-Chip Module (MCM) Layout totaled \$123 million in Q4 2006, a 41 percent increase over \$87 in Q4 2005. PCB and MCM Layout revenue totaled \$391 million for all of 2006, up 14 percent compared to 2005.

EDA Services revenue was \$77 million in Q4 2006, up 12 percent from Q4 2005. Services revenue totaled \$308 million in 2006, up 9 percent compared to 2005.

Revenue by Consuming Region

North America, EDA's largest customer base with 53 percent global share, purchased \$788 million of EDA and SIP products and services in Q4 2006, a 39 percent increase over Q4 2005. For all of 2006, North American revenue was \$ 2,589, an increase of 22 percent compared to 2005.

In Q4 2006, Western Europe revenue increased by 6 percent from Q4 2005 to \$287 million. For the full year 2006, revenue from Western Europe was \$ 977 million, an increase of 12 percent over 2005. Western Europe had a 19 percent share of global revenue in 2006.

In Q4, revenue from Japan decreased 10 percent to \$230 million. Japan revenue increased slightly by 3 percent to \$1,051 million in 2006. EDA sales in Japan constituted 15 percent of the global total in 2006.

Rest-of-world (ROW) growth increased 19 percent in Q4 2006, to \$188 million. Revenue from ROW grew at a rate second only to North America in 2006, increasing 19 percent for the year to \$657 million. ROW is 13 percent of global 2006 revenue.

About the MSS Report

The EDA Consortium's Market Statistics Service reports EDA industry revenue data quarterly and is available by annual subscription. Both public and private companies contribute data to the report. Each quarterly report is published approximately three months after quarter close. MSS report data is segmented as follows: revenue type (product licenses and maintenance, services, and SIP), application (CAE, PCB/MCM Layout, and IC Physical Design and Verification), operating system (UNIX vs. Windows) and region (North America, Western Europe, Japan, and Rest of World), with many subcategories of detail provided. The report also tracks total employment of the reporting companies.

About the EDA Consortium

The EDA Consortium is the international association of companies that provide tools and services that enable engineers to create the world's electronic products. EDA is the critical technology used to design electronics for the communications, computer, space technology, medical and industrial equipment and consumer electronics markets among others.

For more information about the EDA Consortium, or to subscribe to the Market Statistics Service, contact EDA Consortium, 111 West Saint John Street, Suite 220, San Jose, Calif. 95113, USA, office 408-287-3322, fax 408-283-5283, email mss@edac.org, or visit <http://www.edac.org/>.

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Product News

Aldec Supports The MathWorks Simulink® Fixed Point

9 April 2007

Aldec, Inc. announced the release of co-simulation support for fixed-point in Simulink. Active-HDL coupled with The MathWorks Simulink provides support for fixed-point types and HDL co-simulation of black-boxes, which allows seamless integration with Simulink-based DSP tools.

Aldec's new Simulink Interface simplifies verification of hardware designs in Active-HDL through data visualizations and several advanced design analysis tools. It provides for direct co-simulation of mathematical and HDL hardware components of system-level designs. The interface allows successive replacement of mathematical models describing the system operation with their equivalent target HDL components. The interface also reduces time-to-market by filling the gap between high-level abstraction of algorithmic modeling and FPGA and ASIC-oriented low-level hardware modeling.

Pricing and Availability

The Simulink Interface is available today and is provided as part of the standard Active-HDL (PE and EE) configuration for no additional charge. The interface is sold as a separate add-on option for all other product configurations. For a no cost evaluation version of Active-HDL, please visit our company's website at <http://www.aldec.com/products/active-hdl/>.

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Autodesk Provides Customers Anytime, Anywhere Access to Review Designs Online and Offline

10 April 2007

Autodesk, Inc. announced that Autodesk Design Review 2008, its comprehensive review, mark-up and design collaboration software, is now available worldwide for download free of charge.* The company also released its free* Autodesk Freewheel on-demand Web service that enables CAD teams to view and print designs within a Web browser, without installing any software. For design professionals who work in the manufacturing, geospatial and AEC industries, these solutions strengthen their ability to share and communicate design comments from non-CAD reviewers-digitally and globally. Tight integration of Design Review and Freewheel with AutoCAD, Autodesk Inventor and Revit software products provides an easy-to-use, seamless solution for Autodesk customers collaborating in both 2D and 3D.

"Design Review just keeps getting better. The latest software release has already enabled us to extend efficient collaboration between our designers using Autodesk Inventor and the shop floor," commented Patrick Chartrand, CAD administrator at Advanced Dynamics, a Montreal-based manufacturer of heavy-duty material handling systems. "We expect to drive even greater reductions in production delays."

Improving Business Process with Integrated Digital Workflow

Design Review supports all-digital collaboration and communication of design changes, as well as easy integration of feedback into Autodesk manufacturing, AEC and geospatial applications. Users can view files, print, measure and mark them up as part of the review process. Autodesk Design Review 2008 helps improve these process efficiencies with new features:

- 3D measuring and mark-up with persistent views and user-defined coordinate systems
- Version comparison, allowing a reviewer to understand additions and deletions
- Georeferenced DWF files, giving field workers quick coordinate location details with GPS integration

- Contextual search, providing online access to ThomasNet and GlobalSpec product catalog information directly from the design
- Batch print with HP Instant Printing capabilities, accelerating printing productivity when sending multiple sheets or models to connected HP Designjet printers

Unfettered Collaboration

Freewheel addresses the need to share lightweight versions of 2D and 3D designs with project teams, without requiring the installation of software. Introduced on Autodesk Labs in July 2006 and following rapid success with more than 150,000 unique visitors, the service is now available in full release. Freewheel currently allows users to upload, view, print and share design information from within a Web browser and across Windows, Mac, Linux and wireless platforms. Beyond simplified sharing of designs, Freewheel enables Web designers to integrate 2D and 3D CAD information within Web applications and Web sites, without requiring installation of special software or plug-ins. For manufacturers hosting online catalogs, such capabilities enrich presentation; for users, there are fewer steps required to share CAD information online. Freewheel uses AJAX (Asynchronous JavaScript and XML) technology for dynamic rendering of design data and graphics information.

Autodesk's strategic alliance with Microsoft is also supporting customers' need to share CAD designs without requiring additional software to be installed. Users of AutoCAD 2008-based products can now download the AutoCAD 2008 DWFx Driver from the Autodesk Web site and publish compact DWF files (DWFx files) or they can save designs as DWFx files from Autodesk Design Review 2008. DWFx files can be shared within Microsoft's XPS Viewer which ships with Microsoft Vista, .NET 3.0 and Internet Explorer 7.0 (see "Autodesk Unlocks Design Data for Windows Vista and XPS Users," November 30, 2006).

"Our customers are feeling the effects of forces at work around the world, from the globalization of business to the demands of emerging markets-and their need to collaborate with customers, suppliers and people outside the development and engineering departments has never been greater," said Amar Hanspal, senior vice president, Platform Solutions and Emerging Business, Autodesk. "Now companies of all sizes anywhere can take advantage of Autodesk solutions to level the obstacles to sharing and accessing design information, and ultimately, accelerate their design processes to be more responsive to business challenges and opportunities."

Product Availability

Autodesk Design Review 2008 is a free* download, available today in English, Chinese Simplified and Traditional, French, German, Italian, Japanese, Korean, Spanish and Portuguese at <http://www.autodesk.com/designreview-download>. Autodesk Freewheel Web service is also available free of charge* in English at <http://freewheel.autodesk.com/>. AutoCAD 2008 DWFx Driver is a utility download available at <http://www.autodesk.com/autocad> in the utilities and drivers section.

Extending Design Information

DWF technology, Design Review, Freewheel and DWFX are key to Autodesk's efforts to extend access design information beyond the primary design team. DWF extends 2D and 3D design data to project teams, improving their project quality, costs and timeline without compromising accuracy, security or original intent. DWF technology built into virtually every Autodesk design solution includes capabilities to publish and share designs, manage design information and collaborate with non-CAD users. The platform's open and flexible architecture allows customers to connect their design information with their existing processes, and provides technology to hundreds of third-party developers to build DWF-based applications.

*Free products and services are subject to the terms and conditions of the accompanying end-user license agreement or terms of use.

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CEI Releases Powerful New Camera Feature in EnSight, Allowing Users to Define Multiple and Dynamic Vantage Points in CAE Simulations

10 April 2007

Computational Engineering International (CEI) announced that its latest release of EnSight includes a sophisticated camera feature, which allows users to create 3-D visualizations with multiple vantage points. The new feature provides users with nearly limitless viewing options and makes it possible to create walk-throughs and walk-arounds, follow trace particles through flows, and simulate real-world test cameras, such as those used in automotive crash tests.

The feature eliminates the need to move a virtual object simply to view it from a different perspective. Users can now view objects from any angle simply by moving virtual cameras around the object on user-defined pathways or by positioning static cameras at any defined point.

EnSight provides up to eight virtual cameras, each of which can be either static or dynamic. Any viewport can be viewed through any camera, and multiple camera views can be displayed at once on a split screen during playback. Just as is done in filmmaking, clips from each camera can also be spliced together to create a visualization that draws on any or all of the cameras.

“Our new camera feature’s multiple and moving vantage points allow users to greatly enhance CAE visualizations so they can more effectively analyze and communicate research data,” said Anders Grimsrud, CEI’s chief development officer. “Whether they wish to study the progression of smoke through a burning building with a walk-through-style visualization, or follow a blood cell through an artery, we know many users have immediate uses for this feature. In fact, the decision to develop this technology was driven in part by customer feedback from users in a wide variety of industries and research areas.”

The new feature provides several ways to define a moving camera’s path. Users can create splines with the cursor tool, or by inputting control points or X,Y,Z coordinates, or can simply position a camera on

any moving object. The moving object can even be a trace particle, making it possible for a camera to essentially “ride” a trace particle through a flow path.

Whether a camera is moving or static, users can also define a point on any object that the camera tracks. This tracking function can be used to track objects that are either fixed or moving. Users can also define a number of other camera characteristics, including tilting and rotating cameras according to viewing needs.

The camera feature is now available to all licensed EnSight users in version 8.2.4(b), which can be downloaded at <http://www.ensight.com/downloads/index.php>. The feature is also compatible with EnLiten, CEI’s free viewer, which allows anyone to view EnSight files.

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Cimmetry and InQuest Sign New ISV Agreement to Provide A Web-Based Infrastructure Information Solution

11 April 2007

[Cimmetry Systems](#) and [InQuest Technologies](#), a leading provider of collaborative solutions for information intensive industries, signed a new Independent Software Vendor (ISV) agreement.

AutoVue Professional, Web Edition products, will be sold as part of the InQuest IQ9 Web-based workflow and document management solutions. By doing so, Cimmetry and InQuest will deliver AutoVue's web-based viewing, markup and collaboration capabilities to InQuest’s growing customer base. Users can, in a timely and flexible manner, view, annotate and collaborate on hundreds of native document types, including 2D CAD drawings, Office, PDF and graphic documents, using nothing more than a web-browser. Combined with AutoVue, InQuest IQ9 streamlines how companies create, manage and distribute their critical information across locations, projects, processes and organizational boundaries.

"AutoVue enhances the capabilities of our InQuest IQ9 web-based workflow and document management solutions. Partnering with Cimmetry, we are poised to win new business in these markets, where customers are looking for interoperable solutions that empower organizations to optimize collaborative processes and achieve faster time-to-market," says Michael Colapietro, CEO of InQuest.

Focused on serving the visualization market, Cimmetry offers an increasing number of ISV partners, such as InQuest, the ability to integrate AutoVue’s visualization and collaboration capabilities into their product offerings, delivering a single enterprise platform for improved document management and collaborative processes.

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ICEM Ships a New Release of its Surface Modelling Suite ICEM Shape Design R17 to Customers

10 April 2007

ICEM Ltd. announced ICEM Shape Design (ISD) R17 is shipping worldwide.

ISD R17 provides a range of intuitive tools for the creation, validation and modification of any type of surface, from freeform surfaces to complex mechanical shapes. Developed by ICEM on the Dassault Systèmes CAA V5 software architecture it integrates seamlessly with CATIA V5 and other CAAV5-based product lifecycle management (PLM) environments. ISD R17 is available as a ‘collaborative’ installation where access is available to all licensed CATIA V5 products or indeed ‘standalone’ where no CATIA V5 software is required.

New functionality combined with over a 100 customer-driven enhancements. ICEM has worked closely with its customers to ensure it has developed new and innovative functionality. ISD R17 delivers sophisticated new functionality in geometry creation, modification and quality analysis in addition to enhancements ensuring high quality results and advanced surfacing options.

The advanced surface modeling facilities of ISD deliver solutions ranging from general surface modelling to the specialised surface design and engineering requirements of specific industry sectors, such as automotive body and interior components, aircraft exterior skins, business jet and luxury yacht interiors, consumer durable goods and complex tyre designs.

“The market is facing increasing pressures today on their design and engineering processes and need to consider innovative approaches to help reduce design cycle time and maximize design appeal. ISD offers a unique and innovative V5-based styling-to-manufacturing solution that can reduce that cycle time, by providing visibility across the enterprise from the conceptual stage to manufacturing. This improves the overall product development maximizing variant evaluation whilst minimising costs due to late changes or manufacturing issues” states Lee Cureton, ICEM’s CEO.

Comprehensive software suite.

ISD R17 offers standard configurations and add on modules to address the complete product development processes. Any one of the core configurations can act as the pre-requisite for the specialised add-on modules.

General Availability. The complete product set shipped to customers on 2nd April 2007.

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MyWorkPLAN’s Data Flow Improves Cashflow

12 April 2007

Tailormade for SMBs in the general mechanical industry, [Sescoi](#)'s MyWorkPLAN job management software helps to compress the cycle time from purchasing goods or services and receiving payment for orders from customers, thus improving a company's liquidity.

The software is designed to implement without the extensive customisation associated with many management systems.

Starting with quotations, MyWorkPLAN enables engineering companies to utilise existing real production data such as machining times and material prices, and additionally analyse CAD data to quickly generate accurate offers. The software then keeps track of orders placed and controls stock levels of common parts, ensuring that sufficient, but not excessive quantities, are available and that working capital is not tied up in stock. Managers can then check, in real time, the value of bought in items, making sure that they match the budget for the project and at the same time keeping inventory costs to a minimum.

As production progresses, resources allocated to the project can be recorded. Again, these can be checked against the budget so that corrective action can be taken to minimise cost overruns. By continually monitoring performance against plan, companies can maximise the profitability of each job, which will in turn optimise the cash generated.

The optional MyWorkPLAN Touch Screen module can be used to monitor employees' clock-in and clock-out times, as well as their time spent on each task which results in a greater control of the company's productivity.

Continual assessment of the manufacturing cycle also helps to draw attention to production and quality issues before they escalate. MyWorkPLAN's scheduling software shows overstretched resources and potential late deliveries before they happen. Resolving unexpected difficulties early will raise the rate of on-time completion, which will then allow invoices to be issued sooner and payments received more quickly.

The MyWorkPLAN solution even includes an optional Cash Analysis Tool which displays all forecasted cash flow movements to detect any problems before they are picked up by a company's accounting system.

MyWorkPLAN provides general mechanical SMBs with an intelligent, multifaceted approach to reducing their working capital and the length of their cash flow cycle.

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New Release of FLUENT for CATIA V5 Enhances Productivity Through Integration and Automation

11 April 2007

ANSYS, Inc. announced the release of version 3.0 of FLUENT® for Dassault Systemes' CATIA® V5 software. This release provides workflow enhancements and new features that further improve the integration of Fluent's computational fluid dynamics (CFD) technology in the CATIA V5 product lifecycle management (PLM) environment. FLUENT technologies are now part of the ANSYS CFD suite, from the company's recent acquisition of Fluent Inc.

This [new release](#) was developed by Fluent as a member of Dassault Systemes' CAA V5 software community program. FLUENT for CATIA V5 delivers the ANSYS vision of Simulation Driven Product Development to customers working within the V5 PLM environment pioneered by Dassault Systemes. Operating completely within the native CATIA V5 data structures, FLUENT for CATIA V5 provides a fully generative relationship between engineering organizations' manufacturing-ready geometry models and the flow and heat transfer analysis model.

"FLUENT for CATIA V5 is a key component in bringing CFD analysis capabilities to the entire CAA V5 user community, from dedicated CFD analysts to product designers," said Paul Bemis, vice president of product strategy at ANSYS, Inc. "The version 3.0 release closely follows December's version 2.0, illustrating the ANSYS ongoing commitment to this technology with significant product enhancements and short release cycles. As a result, we continue to add new features to the software, and users can take advantage of the benefits almost immediately."

Version 3.0 builds upon the functionality of previous releases, especially in the areas of workflow and automation. These improvements in the integration with CATIA V5 result in both a reduced learning curve and model setup time for the user. Version 3.0 builds in full support of CATIA V5 VB scripting and macros, enabling the customization of repetitive tasks that can lead to improved efficiency. Other enhancements include more streamlined update scenarios for large geometrical modifications, easier management of parallel processing, extended post-processing options, and additional user guidance and information during the case setup process. These new or improved features further increase the tool's productivity and extend the CATIA V5 PLM benefits to all FLUENT for CATIA V5 users.

Version 3.0 of FLUENT for CATIA V5 is available for immediate shipment. Product configuration and pricing information are available from ANSYS. Additional product details and demonstrations are available at <http://www.fluentforcatia.com>.

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OCP-IP Standardizes on Synopsys' DesignWare Verification IP for OCP-IP's CoreCreator Verification Toolset

10 April 2007

Synopsys, Inc. and Open Core Protocol International Partnership (OCP-IP), an independent non-profit semiconductor industry consortium, announced that they are collaborating to provide Synopsys' DesignWare(R) Verification IP (VIP) as part of OCP-IP's CoreCreator verification toolset. DesignWare VIP for OCP, part of Synopsys' portfolio of standards-based verification IP, will become the OCP-IP endorsed verification IP solution and will replace the OCP Bus Functional Models (BFM) currently

provided with OCP's CoreCreator tool. The new, combined solution, which includes DesignWare VIP and CoreCreator's performance analysis, protocol checking, and transaction disassembly, gives OCP-IP members a common verification toolset, enabling maximum consistency and interoperability across OCP implementations.

"The inclusion of Synopsys' DesignWare VIP into CoreCreator is a natural extension of the significant contributions already made by Synopsys to OCP- IP," said Ian Mackintosh, president of OCP-IP. "DesignWare VIP for OCP enables us to provide our members with a best-in-class verification solution that is current with latest versions of the standard, together with support for the latest verification methodologies."

The Synopsys DesignWare VIP for OCP will be available to OCP-IP members on request from the OCP-IP website as part of their subscription entitlement. Each release of the DesignWare VIP will be verified by OCP-IP for compliance to the latest version of the OCP standard. Synopsys' DesignWare VIP for OCP includes 100 percent coverage of the functional coverage groups defined in section 4 of the OCP-IP compliance check document.

Synopsys' DesignWare VIP for OCP supports Verilog, VHDL, and SystemVerilog testbenches and is fully compliant with the "Verification Methodology Manual" (VMM) guidelines for coverage-driven, constrained-random verification environments. It also supports the generation of trace files used by CoreCreator's OCP performance analysis, checker, and disassembly tools.

"When integrating IP in system-on-chip designs, one of the biggest challenges facing designers today is conformance to on-chip bus standards," said Ed Bard, senior director of IP marketing at Synopsys. "Verification IP plays an extremely important role in minimizing integration challenges by allowing designers to verify compliance of their interfaces. DesignWare VIP provides a consistent verification solution to the entire OCP-IP community, leading to maximized interoperability between OCP-IP member designs."

Availability

DesignWare Verification IP for OCP is available today and can be downloaded from the Synopsys IP directory: http://synopsys.com/products/designware/vip_solutions.html. OCP-IP members will be able to obtain licenses of the DesignWare Verification IP for OCP within the second quarter of 2007 as part of their OCP-IP subscription. A separate announcement will be broadcast to OCP-IP members at that time.

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SensAble Introduces Auto Surfacing Module for FreeForm Modeling Plus System

5 April 2007

SensAble Technologies, Inc. announced the availability of Version 9.1 of its FreeForm® Modeling™ and Modeling Plus™ software. The release contains many new features that allow designers to

streamline the process of creating 3D 'virtual clay' models, as well as preparing models for use in downstream CAD/CAM. Most notable in the release for the FreeForm Modeling Plus system, is the new Auto Surfacing Module, which will save product designers and model-makers both time and expense as they prepare surface models for manufacturing.

Black & Decker's director of industrial design, Jay Czerwinski states: "The new Auto Surfacing functionality in FreeForm automatically surfaces our clay models to the same high quality we achieve when we surface manually. These automatically generated surfaces are 'water tight' and import into Pro/ENGINEER® flawlessly as a solid every time. The time saved by eliminating both the manual surfacing and the post-import operations in Pro/ENGINEER, enables our designers to spend much more of their time in the creative process of product development. We are extremely excited to have collaborated with SensAble during the testing of this much anticipated new capability in FreeForm."

"Our Auto Surfacing Module is fast and easy to use to surface FreeForm models," said Joe Wisnewski, VP Engineering for SensAble. "Of course users' results may vary depending on model complexity and downstream surfacing requirements." Users can define parameters for Auto Surfacing in the FreeForm Modeling Plus software, export as IGES or STEP files, and then edit in their traditional CAD systems, such as Pro/ENGINEER, SolidWorks®, and AliasStudio™. While the FreeForm system already provides a suite of surfacing tools, the Auto Surfacing Module gives users a much faster surfacing option and improved interoperability with traditional CAD systems. And it saves many users from having to purchase an additional product to perform this function.

FreeForm v9.1 Highlights Include:

- Performance improvements of up to 85% for key functionality (over v9.0)
- Customizable STL-to-Clay conversions for greater flexibility and file size management when modeling and exporting
- Use projected high-res 2D images/textures as interactive modeling guides, while taking advantage of all the editing and masking tools in Adobe® PhotoShop®
- Add flowing, repetitive details/patterns to models very quickly
- Improved tools for faster preparation of models for manufacturing
- Many new and enhanced features and functionality for greater modeling productivity
- Additional options to customize the user interface for individual design environments and user preferences
- Auto Surfacing Module (FreeForm Modeling Plus only)

Availability

The 32-bit and 64-bit editions of the v9.1 software for FreeForm Modeling and Modeling Plus systems are currently shipping. Customers with active maintenance contracts will automatically receive the v9.1 upgrade at no charge.

The Auto Surfacing Module is available for FreeForm Modeling Plus systems only, and will ship within 30 days. FreeForm Modeling Plus customers with active maintenance contracts will automatically receive the v9.1 software that includes the Auto Surfacing Module.

For more information or to purchase the FreeForm systems, please contact SensAble by email at: info@sensable.com, or by phone at: +1-781-937-8315, or contact an authorized FreeForm Reseller.

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Sequence Columbus-AMS Validated for IBM Foundries

9 April 2007

[Sequence Design](#) announced it has become an Advanced IBM Business Partner, and its Columbus-AMS extraction technology is now validated as “Ready for IBM Technology” (RFIT) for IBM’s BiCMOS and CMOS-RF process technologies.

The RFIT program helps IBM’s foundry customers speed time to market, reduce development risk, lower development costs, and improve return on investment by identifying design solutions that IBM has validated for compatibility with its foundry technologies.

“We have been working with Sequence Design’s Columbus-AMS since 2000. Columbus has been a consistent performer, used by our foundry customers to tape out a large number of complex designs,” said Ned Cahoon, manager of the IBM Foundry Business Partner program. “Columbus-AMS supports eight IBM foundry technologies. We are impressed with its accuracy, versatility, and ease of use.”

The Columbus extraction product family is part of Sequence’s high-performance, low-power design lineup: PowerTheater, CoolPower, CoolCheck, and CoolTime. Columbus-AMS is both a foundation for the company’s RTL-to-silicon, power-aware design tools for SoCs and a leading RLC parasitic extraction tool for high-performance digital and analog/mixed-signal designs. Sequence customers have taped out over 200 successful, high-performance designs using Columbus-AMS extraction.

More information on Columbus-AMS is available online. Visit <http://www.ibm.com/> and search for Columbus-AMS.

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Sequence Teams With New In-Sequence Partner DeFacTo Technologies On DFT-Ready RTL Power Analysis

11 April 2007

Sequence Design announced [DeFacTo Technologies](#) has become the newest member of its In-Sequence Technology Partner Program, promoting EDA interoperability and advanced design methodologies. The first collaboration between the companies is the integration of DeFacTo's scan insertion tool, to be released later this year, and Sequence's PowerTheater.

Today, RTL power analysis is performed on designs before most of the DFT logic is implemented. Furthermore, given scan-ready, gate-level netlists, test vectors which are applied post-silicon are generated after synthesis, so power problems are discovered late, leading to unnecessary design iterations. Compared to the gate level, it is known that any design abstraction allows a better reactivity. Running all necessary test vectors on a RTL "scan-ready" design and analyzing power activity pre-synthesis is desirable.

Test logic insertion at RTL by DeFacTo will enable PowerTheater to more accurately analyze power on a scan-ready RTL design. Benefits of this new approach include:

- Detect and solve testability problems very early
- Detect and solve power problems for both testing and functional modes
- Shorten design iterations
- Strengthen design verification at RTL
- Only synthesis and place & route affect test insertion at gate level
- Extend designer's database including both power and test configurations
- Reuse DFT logic for functional operations such as power-on Reset, contributing to better managed power and timing, and help in minimizing the overall silicon overhead

"By having PowerTheater run its RTL power analysis on 'scan-ready' designs, users can avoid unnecessary iterations and achieve greater power efficiency," said Vic Kulkarni, Sequence president and CEO. "We welcome DeFacTo into the In-Sequence family, and look forward to bringing this new methodology to market soon."

"Through this collaboration with Sequence, DeFacTo aims to demonstrate that providing scan at RTL contributes in efficiently detecting and solving power problems that become critical during

manufacturing testing, and also in better budgeting power in general,” said Chouki Aktouf, DeFacTo CEO and CTO.

DeFacTo Technologies is the latest in a series of In-Sequence partnerships, joining a variety of EDA vendors, foundries, IP providers, design services providers, platform vendors and universities. For more information visit <http://www.sequencedesign.com/>.

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Serena Software Bundles Application Simulation Tool with Requirements Management Solution

10 April 2007

Serena Software, Inc. announced that its requirements visualization and simulation tool, Serena® Dimensions® Composer™, will be bundled with Serena Dimensions® RM, the company’s requirements management product, at no additional charge through June 30, 2007. The rich visualization and prototyping capabilities of Composer combined with the comprehensive requirements documentation and management strength of Dimensions RM enable organizations to deliver the right applications in less time.

Serena’s bundled solution fosters more effective collaboration between IT and business users by allowing end users to describe their application requirements in terms of business activities rather than complex development terms, and then visualize and validate software changes before development starts. Then developers can effectively manage requirements throughout the entire project lifecycle, from change requests to versioning and approvals. As a result, managers can ensure the application will meet business requirements from the project’s onset, avoiding time-consuming and costly rework. The tight integration between Composer and Dimensions RM creates the most complete requirements management solution available to enterprise IT teams.

“Requirements management is not just about collecting and managing requirements. It also involves validating those requirements with end users,” said Kathryn Cay, senior vice president, Infinity Carrier Division, Ebix, Inc. “We save inordinate amounts of time with the prototyping, documentation, and tracking capabilities of Composer and Dimensions RM – weeks and maybe even months of work.”

About the Bundled Solution

Together, Serena Dimensions Composer and Serena Dimensions RM provide an integrated solution that helps organizations deliver their software on time, on target, and on budget. Dimensions RM gathers, tracks, manages, and integrates business requirements with change and configuration management through a single, integrated process model and unified data store. Composer adds to this foundation by providing application simulations and prototypes that create a common understanding of the proposed application at the outset, before development begins. With requirements and proposed solutions presented in a clear conceptual format, misunderstandings and ambiguity are eliminated. Developers and

business users can visualize and review both the business processes behind the application and associated software requirements, making adjustments as needed on the fly.

“Defining requirements and getting user buy-in at the beginning of a project is a critical part of the software development lifecycle. Serena is the only vendor in the industry today providing a tight integration between the visualization and requirements management disciplines,” said Matt DiMaria, senior vice president of worldwide marketing at Serena Software. “This bundle gives our enterprise customers a significant advantage in delivering higher quality applications with increased accountability and improved customer satisfaction. Ultimately, this can determine who wins and who loses in today’s competitive markets.”

Business benefits include:

Drive down costs: Enterprises no longer have to spend valuable time and money reworking applications. Serena’s products ensure that applications meet requirements the first time the software is developed.

Reduce time-to-market: Because the applications are delivered right the first time, systems go into production with fewer delays, allowing IT and business users to focus on additional revenue-generating applications.

Improve customer satisfaction: Companies can more effectively develop and deliver software that better addresses their users’ needs.

Pricing and Availability

The Serena Dimensions Composer and Serena Dimensions RM bundle is available now worldwide through June 30, 2007. Pricing starts at \$2000 per user. New Dimensions RM customers and existing customers who purchase additional seats will receive Composer at no additional cost. Interested parties should contact their Serena sales representatives or authorized resellers. For more information about this offer, please visit <http://www.serena.com/US/products/dimensions/dimensions-rm-composer-offer.aspx>. (The preceding URL may need to be copy/pasted into your internet browser's address field. Remove the extra space if one exists.)



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Simulayt Announces the Release of its New Product, Composites Link for CATIA V5, in Collaboration with Dassault Systemes

9 April 2007

[Simulayt Limited](#) announced that it was taking its collaboration with Dassault Systemes a step further by the release of an exciting new product, Composites Link for CATIA V5 Composites Workbench. The new product will, for the first time, integrate the analysis function performed by software such as ABAQUS/CAE with the design function performed within CATIA V5 Composites Part Design during

the composites development process. Composites Link transfers zone and ply data directly between finite element models used by analysts, and the geometrical models used by designers within CATIA V5 Composites Part Design. The bi-directional, automated transfer replaces traditional manual data transfer methods that are slow and error-prone.

John Klintworth, the CEO of Simulayt, commented: "The most critical factor limiting the development of high performance composites structures subject to severe loads is the bottleneck in communication between analysis and design functions. With our longstanding partnerships with the leading vendors of analysis and design tools, we are well-placed to bring these disparate communities together to accelerate the composites development process. This will allow designs to be improved and mistakes reduced to ensure the development of efficient but robust structures."

Composites Link is a CAA V5 application to transfer zone and ply information between finite-element based models used by analysts, and geometrical information used by designers within CATIA V5 Composites Part Design. Analysis zone descriptions (PCOMP/Section data) can be imported to generate zones in the CATIA V5 Composites Part Design Workbench automatically. These zones provide the starting point for the development of a ply model as development proceeds. Once plies have been defined, they can be transferred directly to analysis tools for detailed ply-level analysis. Based on the results of the detailed analyses, changes suggested by the analyst can then be imported back into CATIA V5 Composites Part Design and reviewed by the designer, where they can be compared and accepted interactively.

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SolidCAM Releases Version R11.1

9 April 2007

[SolidCAM](#), developers of the Gold-certified integrated CAM engine for Solid-Works, announced the release of SolidCAM2007 R11.1. Resellers can now download this important update to SolidCAM2007 R11 from SolidCAM's website, <http://www.solidcam.com/>.

SolidCAM2007 R11.1 enhances all areas of machining, with improvements to existing milling, turning, turn-Mill and wirecut functions. SolidCAM also expands strategies for high-speed machining and 5-axis simultaneous milling. For 4- and 5-axis indexial milling, a new feature gives the user control over the mapping of the 5-axis vectors of the tool axis, facilitating the programming of multi-sided parts for 4- and 5-axis machine centers. In the Turning module, the modification of a tuning coordinate system now automatically updates all associated geometries and material boundaries. R11.1 also offers a superior back spindle coordinate editor.

Much of the development effort in the new release was focused on the Wirecut module. Solid-CAM2007 R11.1 improves the selection of insertion and start points. The insertion points can now be automatically calculated as the center of holes pre-defined by the user. Start points can be set in relation to the insertion point either by distance or by angle. For multiple chains, Solid-CAM2007 R11.1 gives the user new flexibility in the timing of Rough and Finish operations in series.

To speed the post-processor development, SolidCAM2007 R11.1 offers completely new functions for the Internal Post-Processor (IPP) and General Post-Processor (GPP) tools. These include a new procedure manager for the IPP tool and additional code types for the GPP tool. These new functions result in faster IPP response.

Emil Somekh, founder and managing director of SolidCAM, stated: "When we released the previous version SolidCAM2007 R11, with its powerful High-Speed Machining module, we targeted new markets like tool- and die-making. The new release provides an update across our wide range of applications. SolidCAM2007 R11.1 shows our commitment to continuously provide enhancements to our existing user base to help them to optimize their manufacturing processes."

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SpaceClaim Offers Integrated Parts Catalog through TraceParts Partnership

11 April 2007

SpaceClaim Corp. and [TraceParts S.A.](#) announced the immediate availability of SpaceClaim TraceParts, a comprehensive library of manufacturers' and industry standard parts integrated into SpaceClaim Professional 2007. Users can choose components from a variety of leading parts supplier catalogs and place them directly in their designs. The availability and use of manufacturer-supplied design models allows concept designers, engineers, and other SpaceClaim users to increase personal productivity by focusing more time on contributing to their own designs.

"SpaceClaim provides users with immediate productivity gains through a modern user interface, flexible modelling environment, and powerful tool set. The inclusion of the SpaceClaim TraceParts standard libraries furthers user productivity by speeding the design process," said Michael McGuinness, COO of SpaceClaim Corp. "The seamless integration of TraceParts with SpaceClaim Professional 2007 is another example that highlights the advantages of our open XML data model and data exchange capabilities to quickly provide users additional value through customer-focused technology partnerships."

"We are very proud to be the first parts library integrated into SpaceClaim Professional 2007. We've been in the CAD industry for more than 15 years, and we've never experienced the high-level of responsiveness we received from SpaceClaim. They literally integrated our complete library of parts into SpaceClaim in an hour. It tells a lot about how reactive and passionate the whole SpaceClaim team is," said Gabriel Guigue, Managing Director of TraceParts. "SpaceClaim is clearly an industry technology-leader and we expect all of our parts manufacturers to benefit from SpaceClaim's growing acceptance in the marketplace."

Much more than a simple parts library

Comprehensive Library: SpaceClaim TraceParts includes 100+ millions of manufacturers' and standard parts coming from leading European-based and other parts suppliers in the tooling, machinery,

aerospace, and automotive industries. For a complete list of part catalogs and suppliers go to: www.traceparts.com

Seamless integration: the library is directly accessible from within SpaceClaim Professional 2007, and the selected parts are automatically inserted into the current assembly as native 3D models.

Powerful search capabilities: different search engines, classifications, and 2D/3D viewers are available in a user friendly interface to browse the large parts database to quickly find the right component and automatically insert it into the design.

Availability

SpaceClaim TraceParts is an add-on license to SpaceClaim Professional 2007. It is available as an annual lease for one or multi-year terms. SpaceClaim lease includes software right-to-use, updates, upgrades, support services, and unlimited access to new catalogs throughout the length of the term. For product pricing, please visit: <http://www.spaceclaim.com/>.



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Spatial Delivers R17 of its 3D Software Component portfolio, including ACIS Modeler, InterOp Translators

9 April 2007

[Spatial Corp.](#) announced the availability of the R17 release of its entire component portfolio, which includes the pervasive 3D ACIS® Modeler and its extensions, and the 3D InterOp CAD translators.

As with each Spatial release, the enhancements in R17 are driven strictly by customer feedback and Spatial's industry research. Years ago, Spatial made a commitment to be a component company with no end-user products, so that, unlike other component providers, it doesn't have to split its loyalties and product development priorities between internal requirements and those of its external customers.

"Spatial always looks over the horizon to see how we can better fulfill the requirements and expectations of traditional customers as well as breakaway technologies," said Keith Mountain, CEO of Spatial. "Our ongoing dedication to our partners' success, demonstrated both in the quality and functionality of our products and the attentive care of our services and sales team, is providing the foundation for our customer's innovation and our business growth."

The following enhancements are included in the R17 release:

ACIS

Assembly Modeling

ACIS now supports Assembly Modeling as well as Part Modeling. A complex feature that is usually developed by ISVs, the inclusion of Assembly Modeling in ACIS substantially reduces time-to-market and saves programming resources.

Reduced Memory Consumption

Improvements to ACIS' internal data storage reduces memory usage in run time up to 30%. The resulting additional memory capacity enables applications to run larger part models.

Memory Minimization

Developers can use this feature to selectively page ACIS data, effectively expanding the addressable virtual memory.

Three Entity Blend

New blend type added which creates a variable-radius fillet surface that is tangent to three faces.

Capping and Mitering

Greater capability to create blends with larger radiuses thanks to improved capping and mitering algorithms.

Tolerant Modeling

Intersector and Boolean enhancements significantly improve how ACIS can operate with imported and approximated geometry and optimize it to be tolerant. This allows the application to increase its efficiency by feeding more information to the modeler.

Local Operations

- The success rate and performance of the Shelling and Offsetting of imported data has been improved dramatically.
- Shelling now works with improved performance on bodies with high curvature.
- Most Local Operations now support sheet bodies as well as solid bodies.

Non-Manifold Stitching

A new stitching interface has been optimized for tool and die creation workflows.

Point-in-Face

By enhancing the point-in-face test algorithm ACIS enables CMM/Metrology applications to speed evaluation of inspection data, on the order of a 10% to 50x increase.

Windows VISTA Support

R17 introduces the support for ACIS on Microsoft® Windows Vista™ operating system.

InterOp

New 64-bit translators for Windows

- Provides more capacity for model translation
- Allows integration with end-users already moving to 64-bit

IGES Assembly Support

The IGES translator now supports translation of assembly and product structure into and out of IGES.

Connect SDK Translators

R17 introduces the capability to translate to and from proprietary CAD systems using InterOp Plug-in architecture. This InterOp Plug-in architecture will allow customers to expand the capabilities of InterOp beyond the CAD file formats currently supported by InterOp.

Windows VISTA Support

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